

Figure 1

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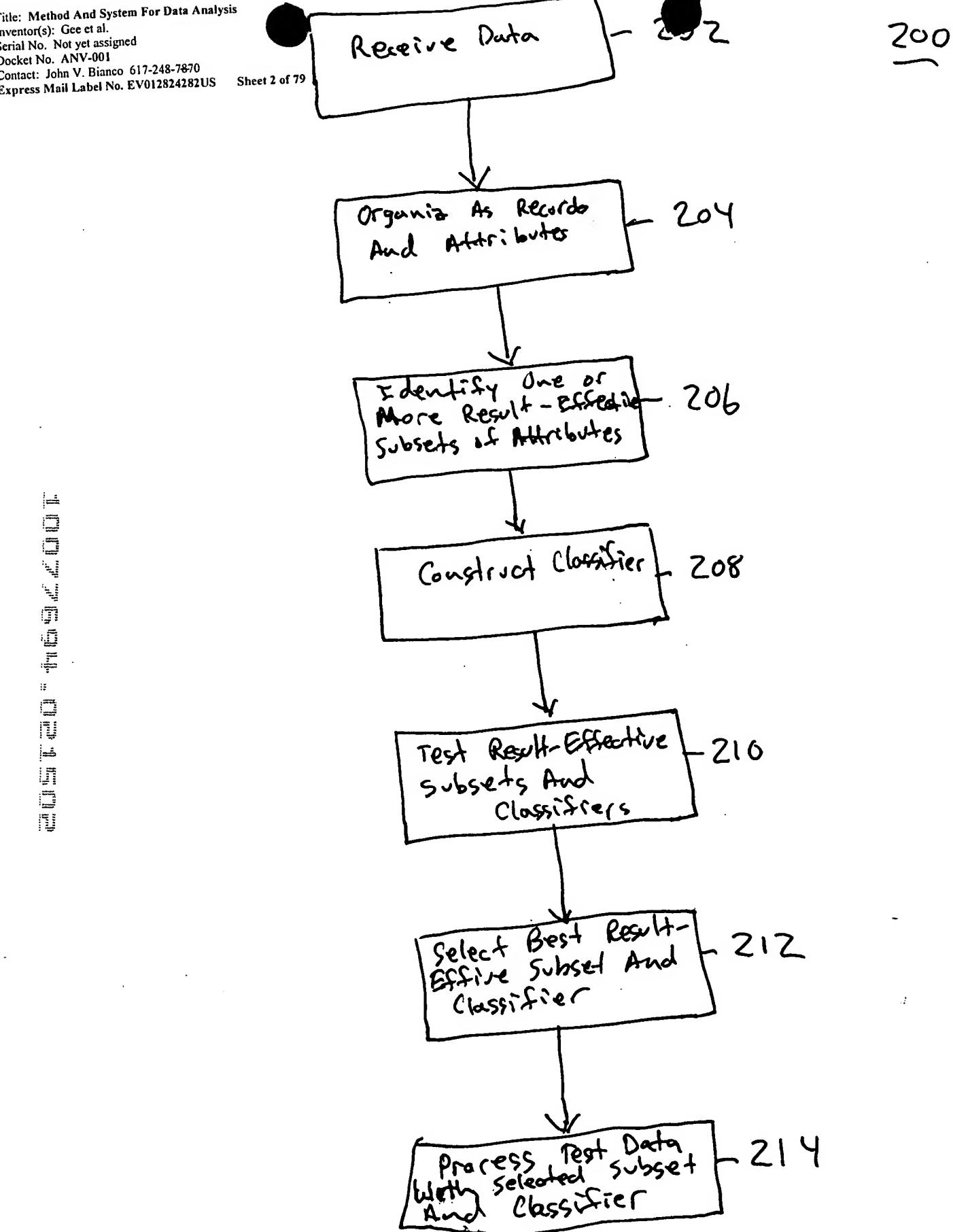


Figure 2

2218917

Variable 16
Variable 15
Variable 14
Variable 13
Variable 12
Variable 11
Variable 10
Variable 9
Variable 8
Variable 7
Variable 6
Variable 5
Variable 4
Variable 3
Variable 2
Variable 1

Record 1

308

302

306 - Figure 3

Record n

Variable 4

400
404
408

Title: Method And System For Data Analysis

Inventor(s): Gee et al.

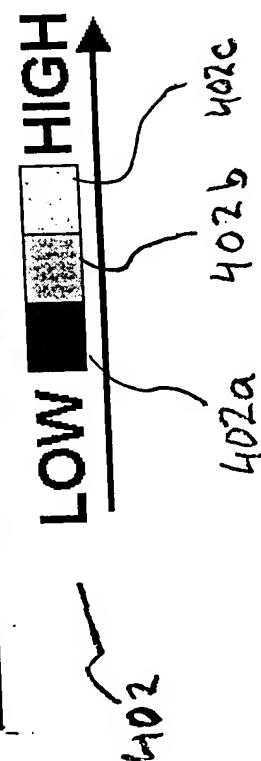
Serial No. Not yet assigned

Docket No. ANV-001

Contact: John V. Bianco 617-248-7870

Express Mail Label No. EV01284282US Sheet 4 of 79

	Variable 1	Variable 2	Variable 3	Variable 4	Variable 5	Variable 6	Variable 7	Variable 8	Variable 9	Variable 10	Variable 11	Variable 12	Variable 13	Variable 14	Variable 15	Variable 16
B	D	F		20.80	86	B	1.98	1.60	A	0.30	1.53	1.95	0.95	3.33	495	
A	A	B		16.00	96	D	2.65	2.33	A	0.26	1.98	4.70	1.04	3.59	1035	
B	D	F		19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	312	
A	A	A		18.60	101	C	2.80	3.24	B	0.30	2.81	5.68	1.03	3.17	1185	
A	A	B		22.50	101	C	3.00	3.25	A	0.29	2.38	5.70	1.19	2.71	1255	
B	D	E		22.00	86	B	1.45	1.25	A	0.50	1.63	3.60	1.05	2.65	450	
B	D	F		19.00	80	B	1.65	2.03	B	0.37	1.63	3.40	1.00	3.17	510	
A	A	B		18.00	98	C	2.45	2.43	A	0.29	1.44	4.25	1.12	2.51	1105	
A	B	C		17.20	94	C	2.45	2.99	A	0.22	2.29	5.60	1.24	3.37	1265	
B	D	F		21.00	85	B	2.60	2.65	B	0.37	1.35	2.76	0.86	3.23	378	



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Variable 2

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Variable 2																
Variable 1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Variable 1	2.70	2.50	1.01	0.60	0.25	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Variable 2	1.99	20.80	86	B	1.98	1.60	A	-0.30	1.53	1.95	0.95	3.33	4.95	3.33	4.95	
Variable 3	A	B	1.21	16.00	96	D	2.65	2.33	A	0.26	1.98	4.70	1.04	3.59	10.35	Varibale 15
Variable 4	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 14
Variable 5	A	C	2.67	18.60	101	C	2.80	3.24	B	0.30	2.81	5.68	1.03	3.17	11.85	Varibale 13
Variable 6	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 12
Variable 7	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 11
Variable 8	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 10
Variable 9	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 9
Variable 10	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 8
Variable 11	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 7
Variable 12	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 6
Variable 13	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 5
Variable 14	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 4
Variable 15	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 3
Variable 16	B	D	1.94	19.00	92	B	2.36	2.04	A	0.39	2.08	2.70	0.86	3.02	31.2	Varibale 2

306

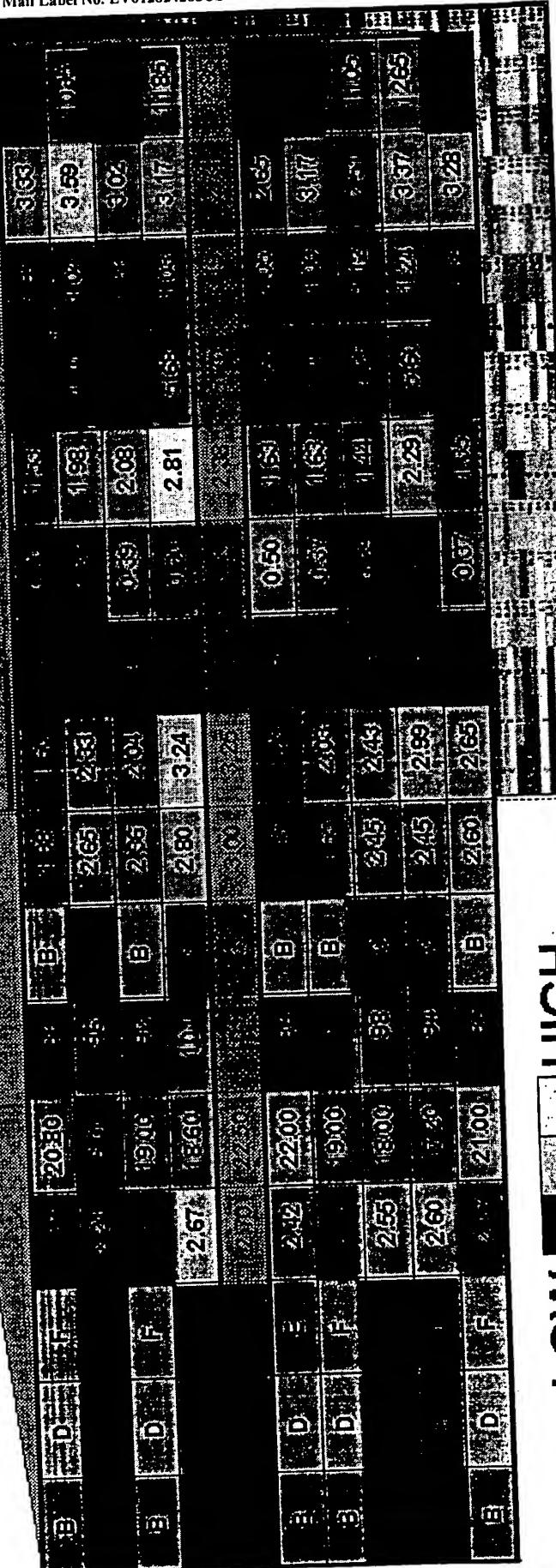
402a 402b 402c

Figure 4B

- variable 1
- variable 2
- variable 3
- variable 4
- variable 5
- variable 6
- variable 7
- variable 8
- variable 9
- variable 10
- variable 11
- variable 12
- variable 13
- variable 14
- variable 15
- variable 16

All Columns

40



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LOW

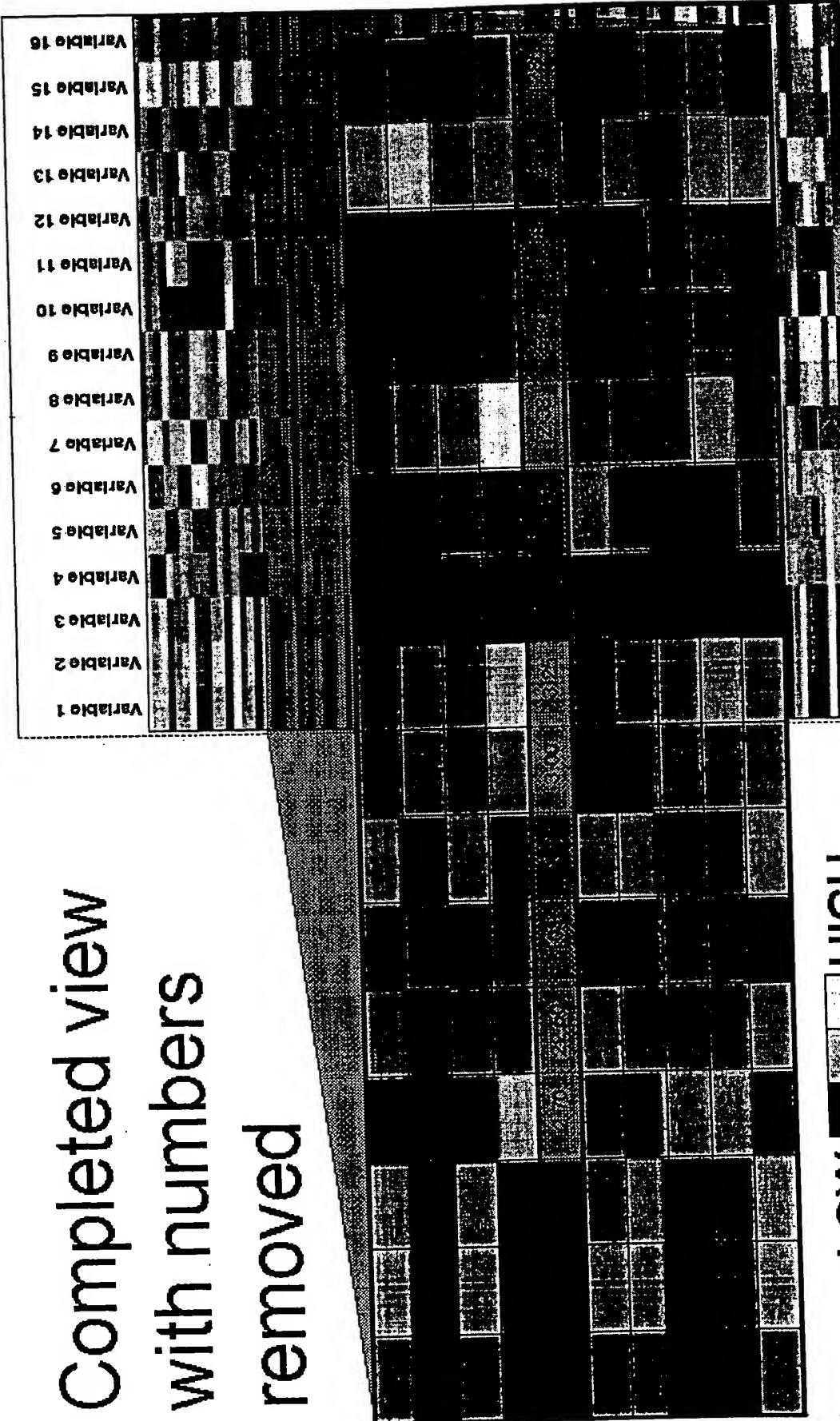
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402a 402b 402c

Figure 4C

306

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Ideal Case

Random

500

502

504

2001-10-16 22:00:00

Example Data Set	
Patients	
Initial Random Arrangement	
	37.0 Scale 0267 Patient
	Gene 08 Gene 16 Gene 26 Gene 07 Gene 02 Gene 11 Gene 25 Gene 27 Gene 03 Gene 06 Gene 01 Gene 24 Gene 05 Gene 10 Gene 12 Gene 20 Gene 18 Gene 04 Gene 30 Gene 23 Gene 13 Gene 14 Gene 15 Gene 17 Gene 19 Gene 21 Gene 22 Gene 28 Gene 29

Figure 5A

Ideal Case

Sorted by Patients

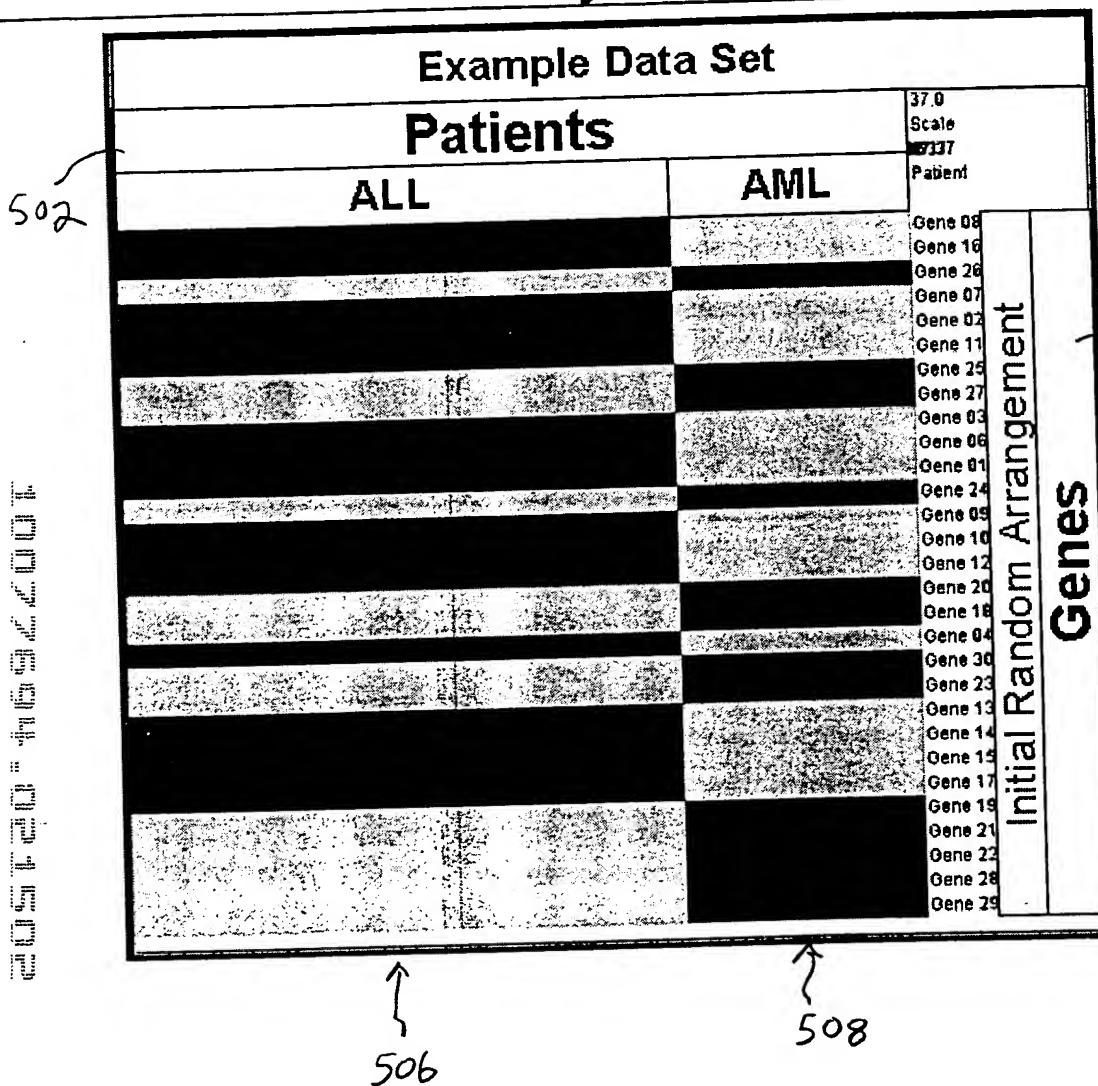


Figure 5B

Ideal Case

Grouped on Genes

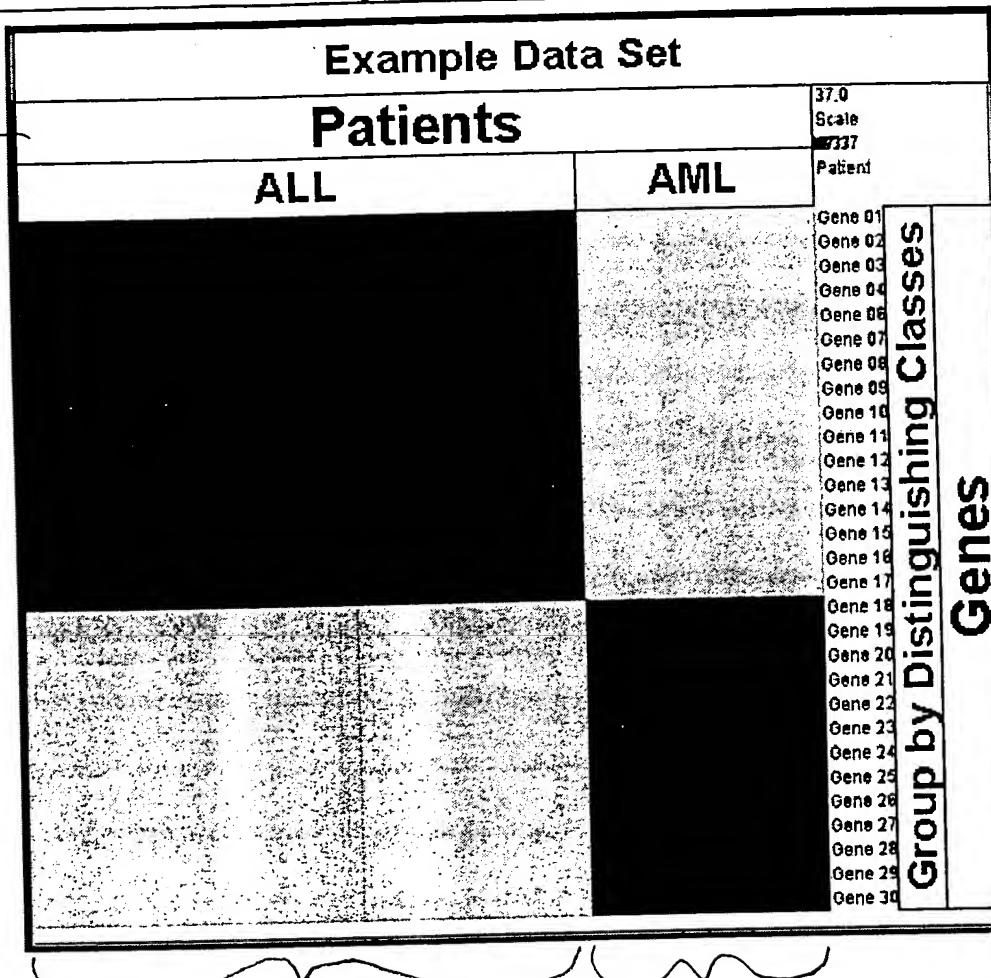


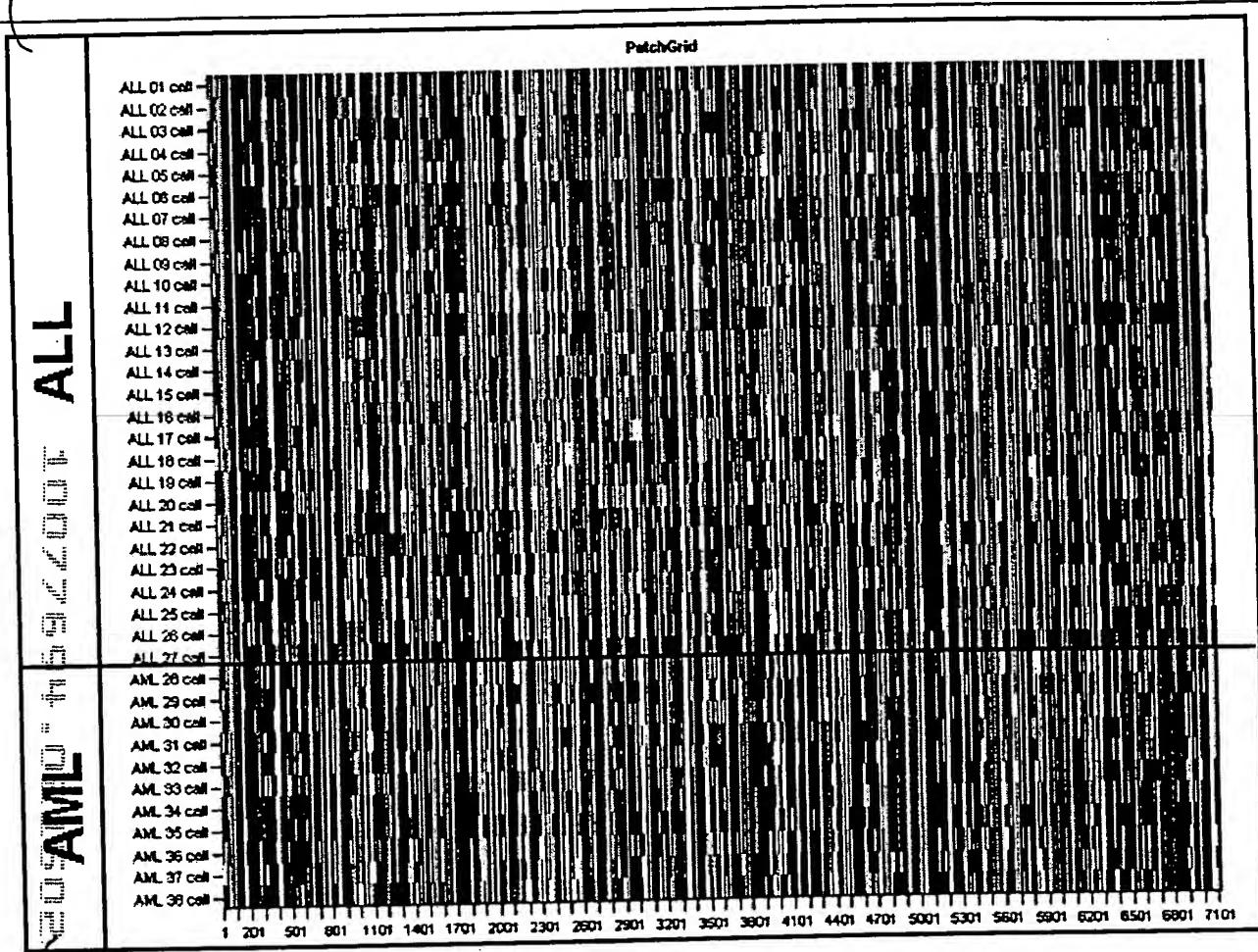
Figure 5C

2218917

SC

Random

600



608
602
604

Figure 6A

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6A

600

Sort 1st Dimension

606

602a

610

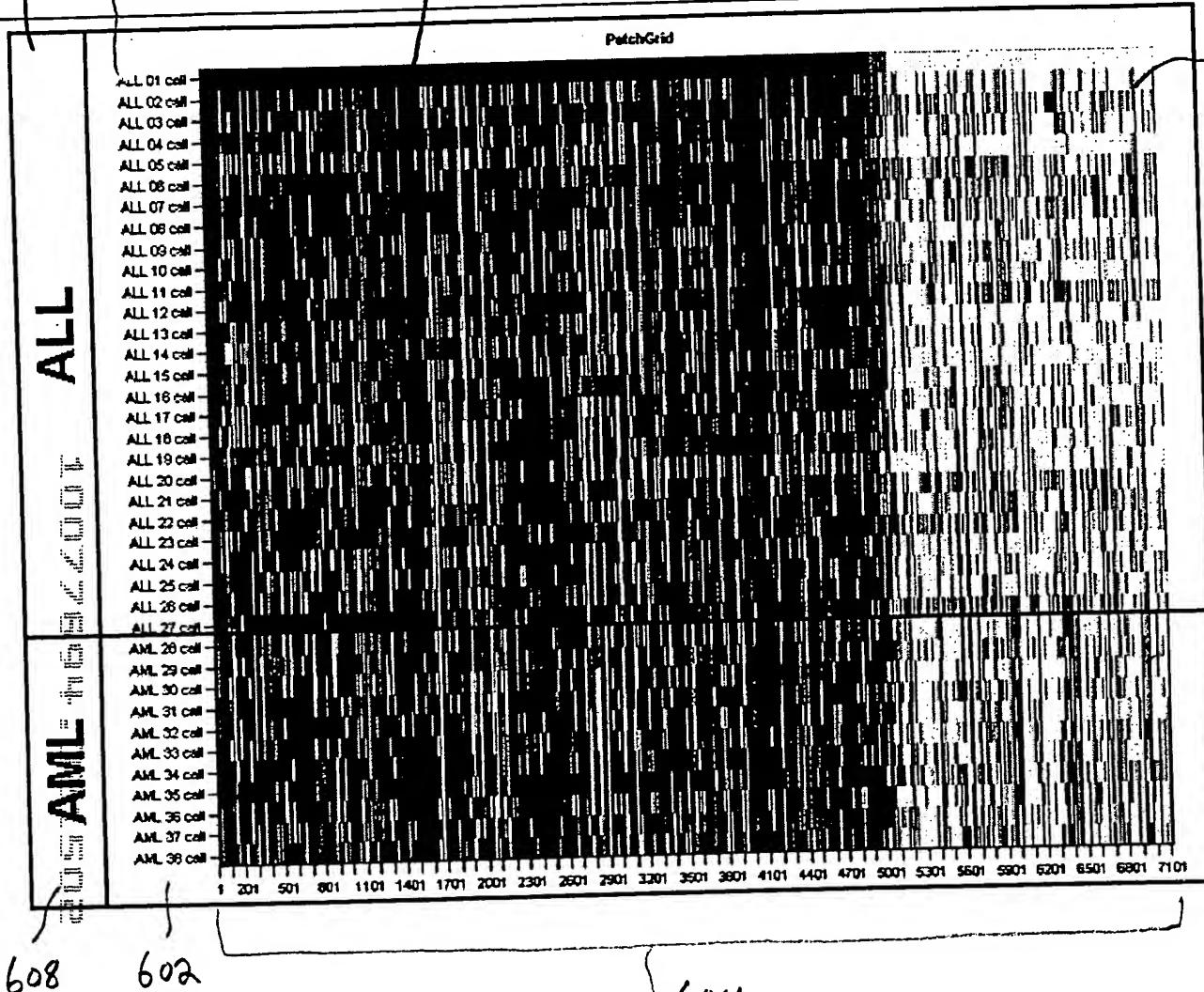


Figure 6B

600

Sort 2nd Dimension

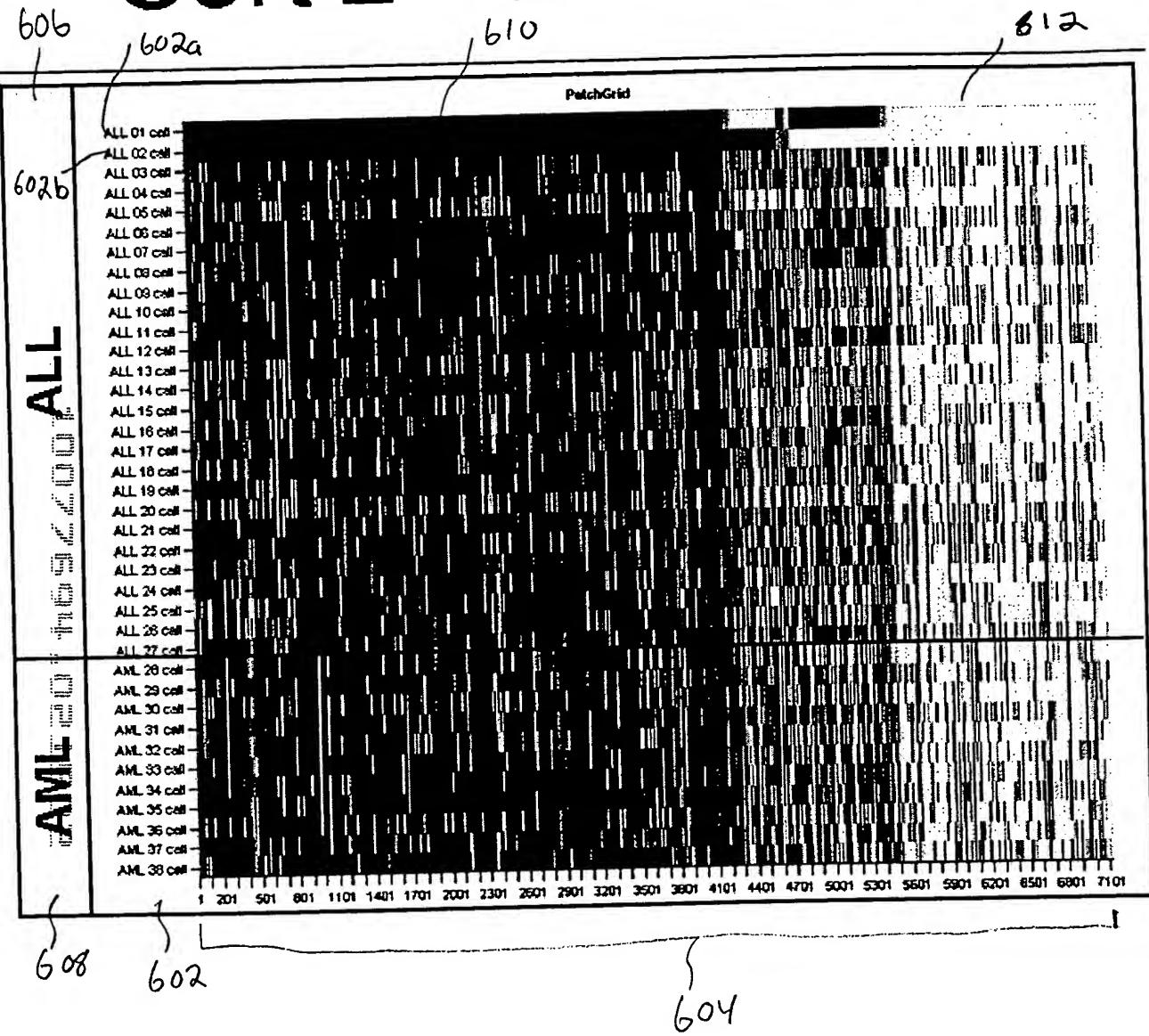


Figure 5c

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6c

12/17/01

Sorted 5 Dimensions

600

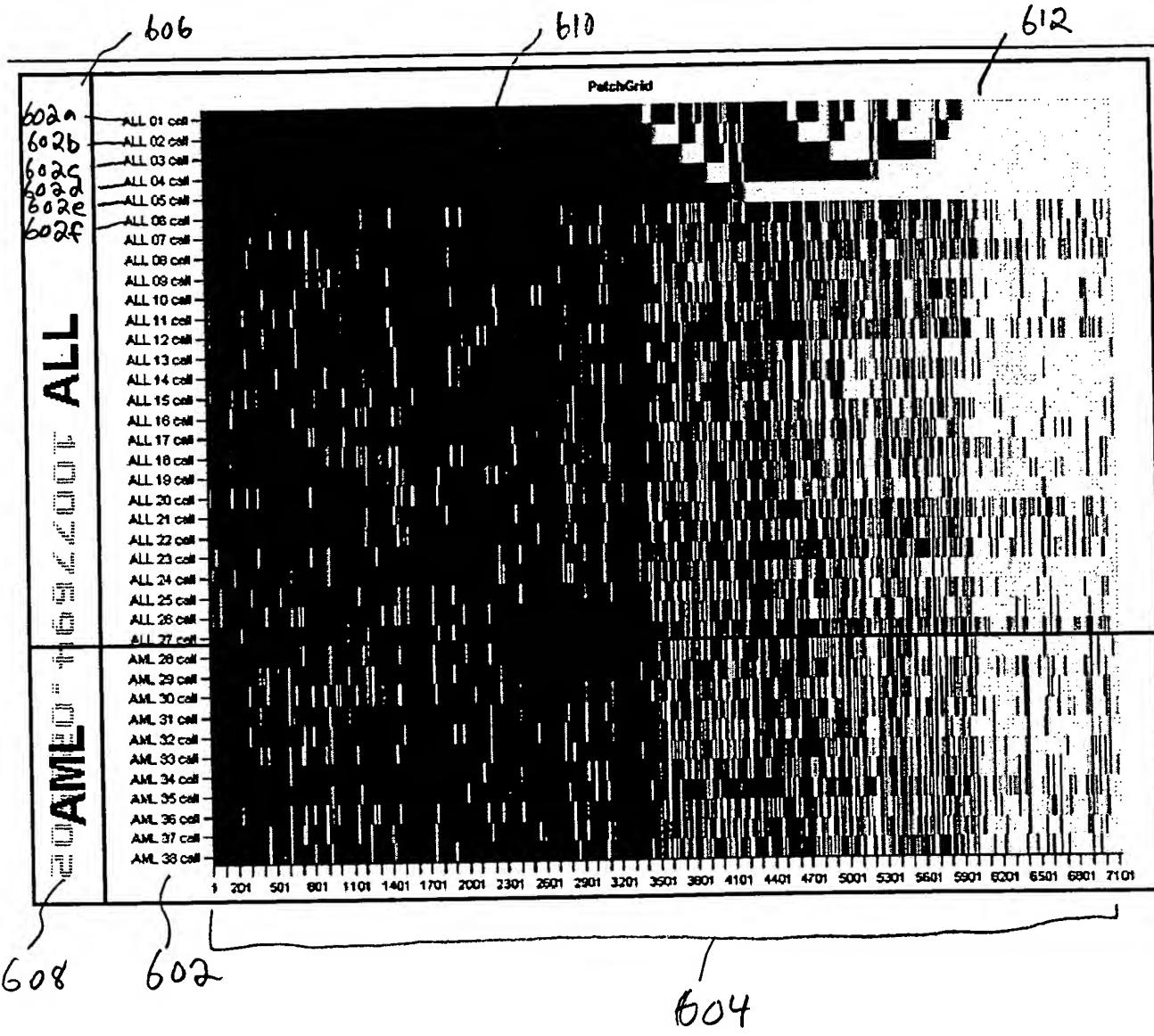


Figure 6D

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(D)

Sorted 33 Dimensions

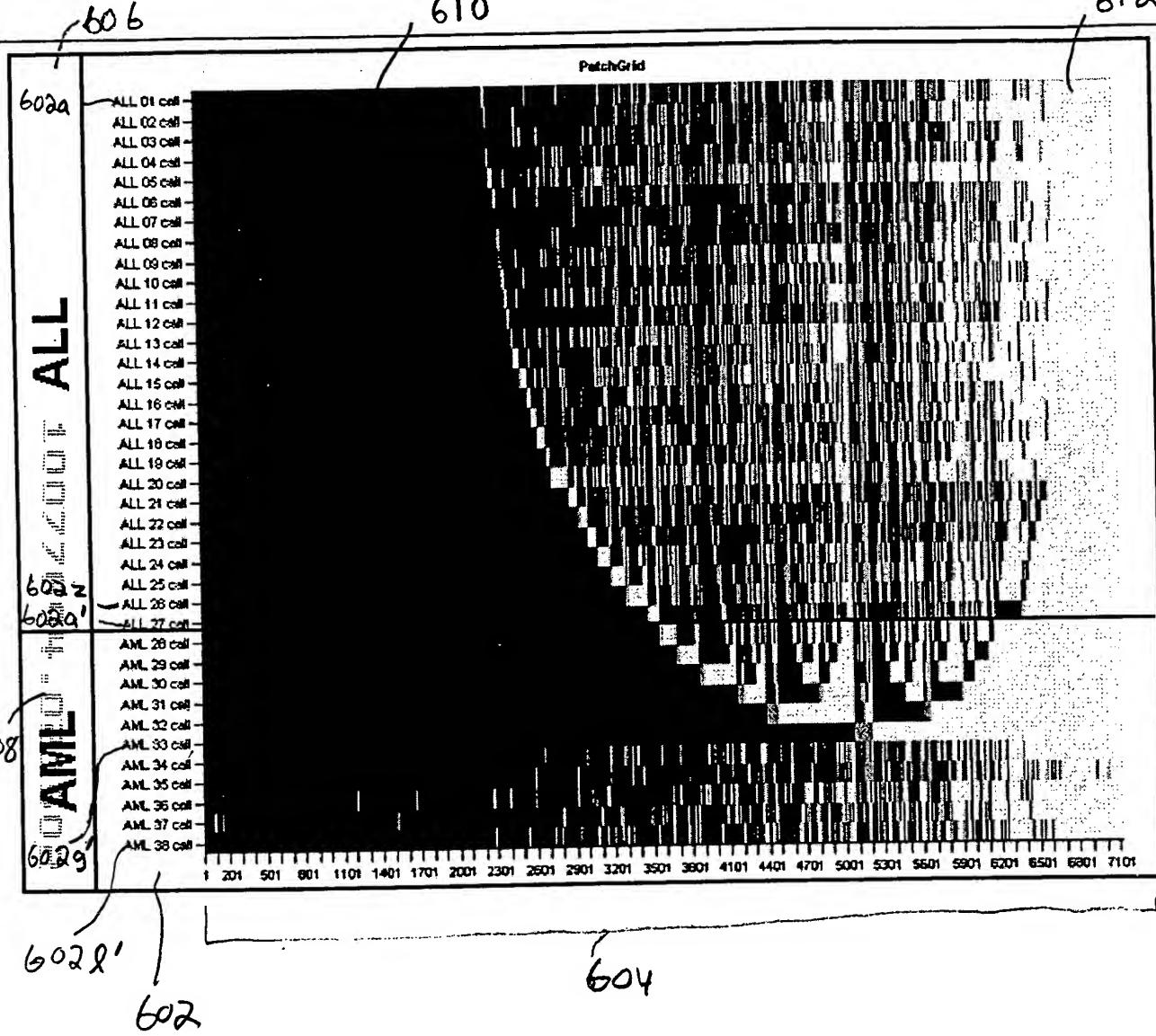


Figure 6E

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All Dimensions Sorted

600

612

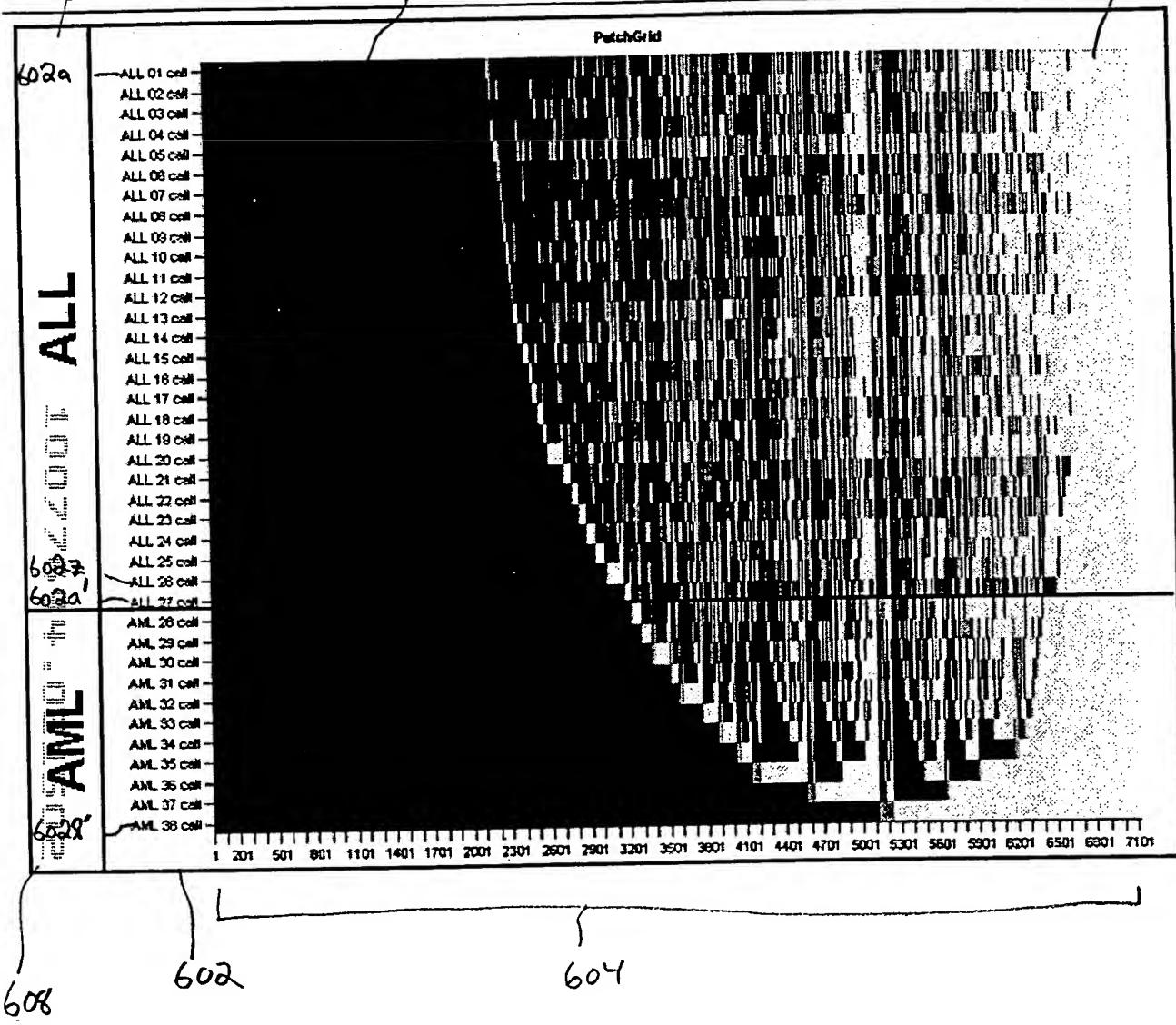


Figure 6F

22189 (7)

6F

600

606

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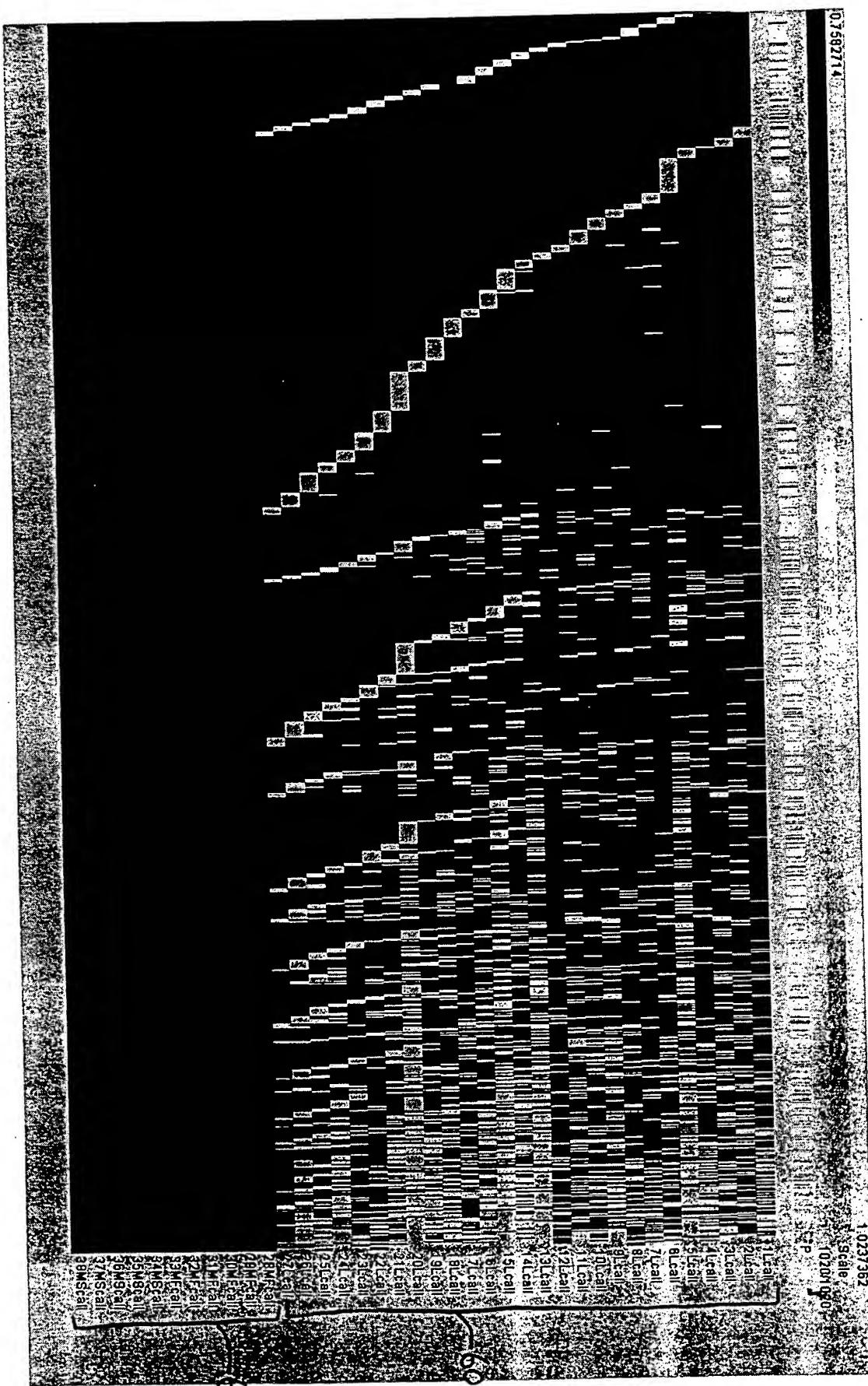
8
6

Figure 6C

(20)

22271828-1

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 18 of 79



1882582

Principal Uncorrelated Record Selection

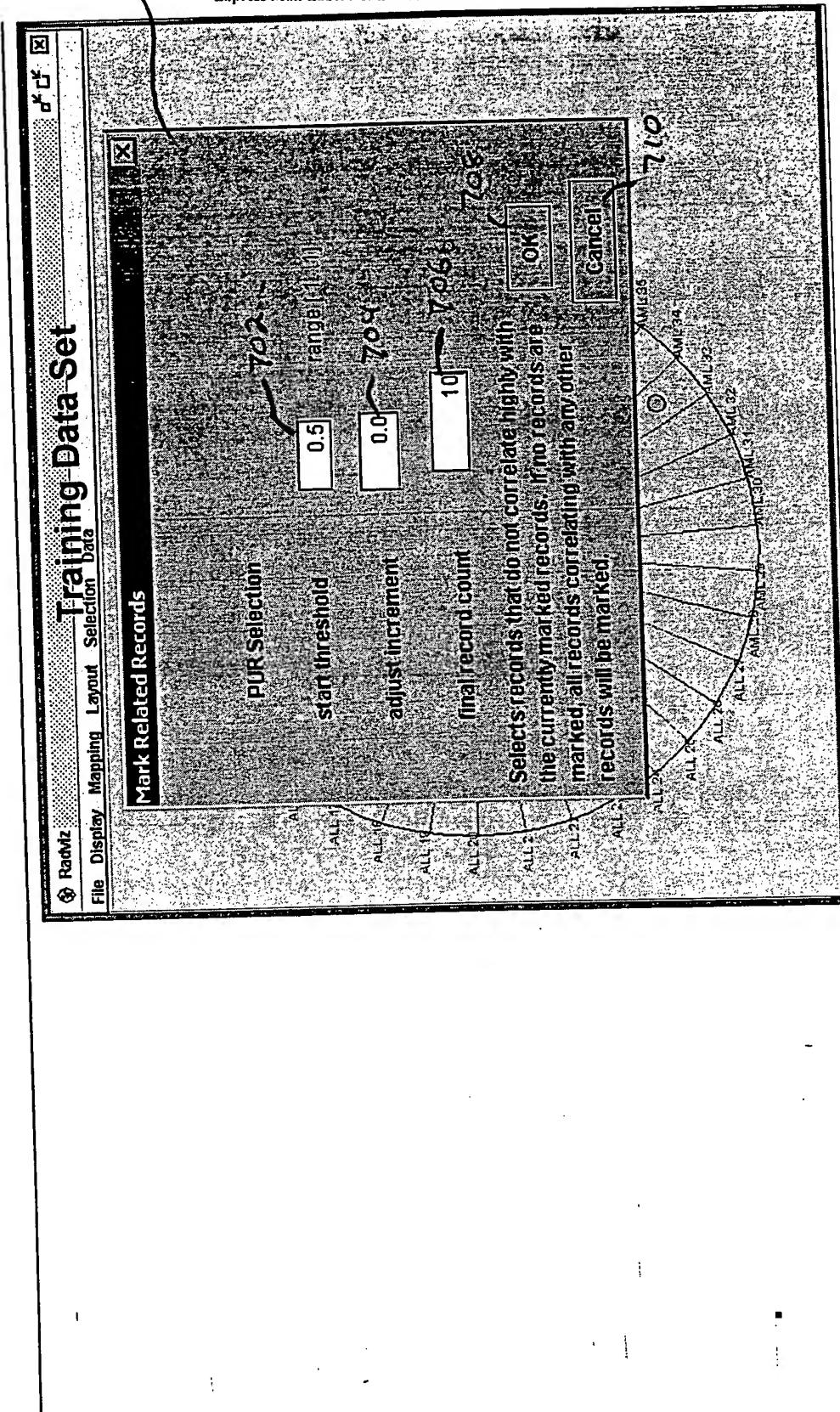


Figure 7

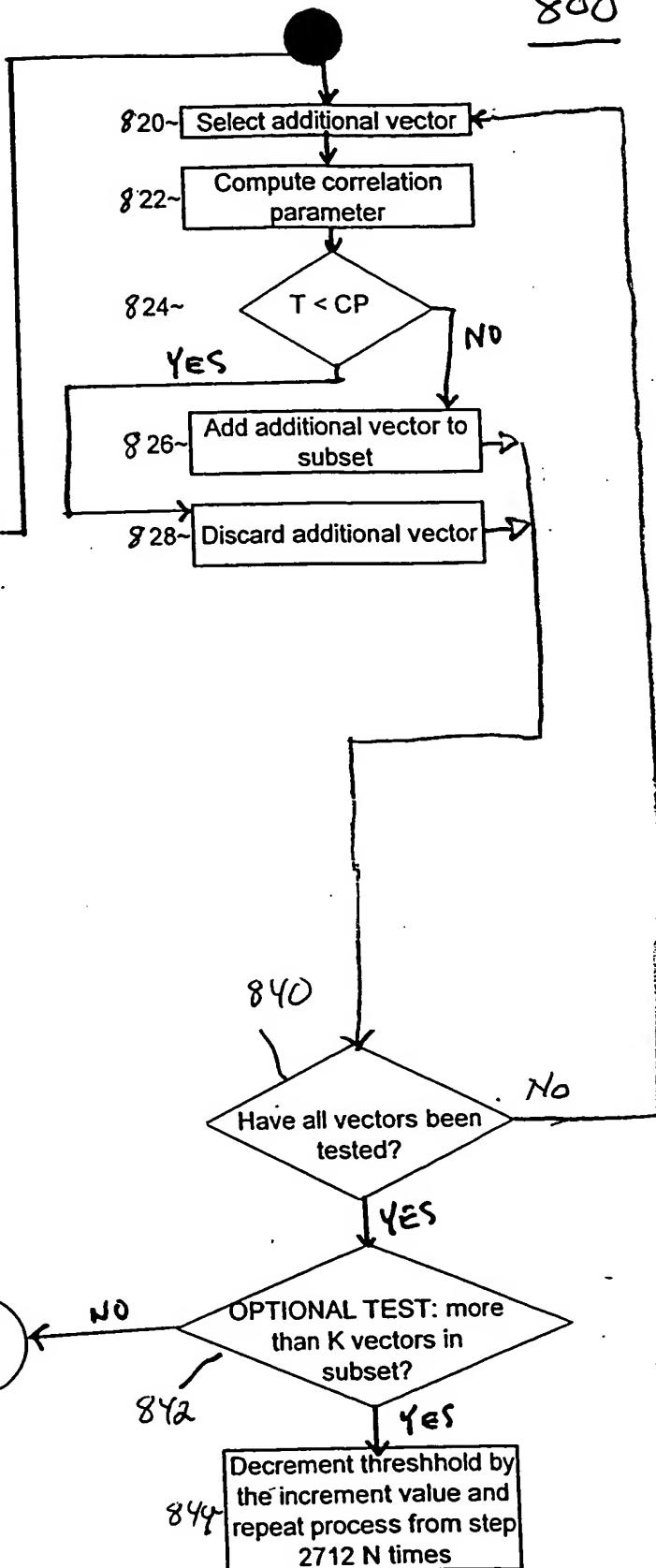
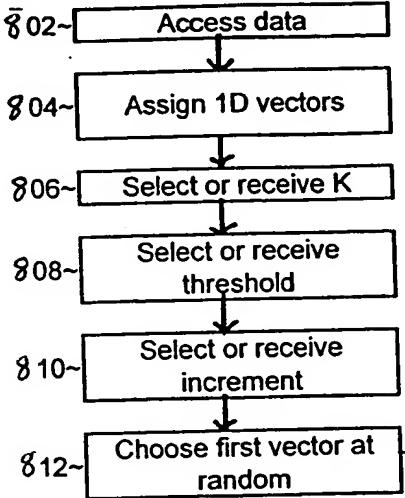


Figure 8

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76 Principal Uncorrelated Genes

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 21 of 79

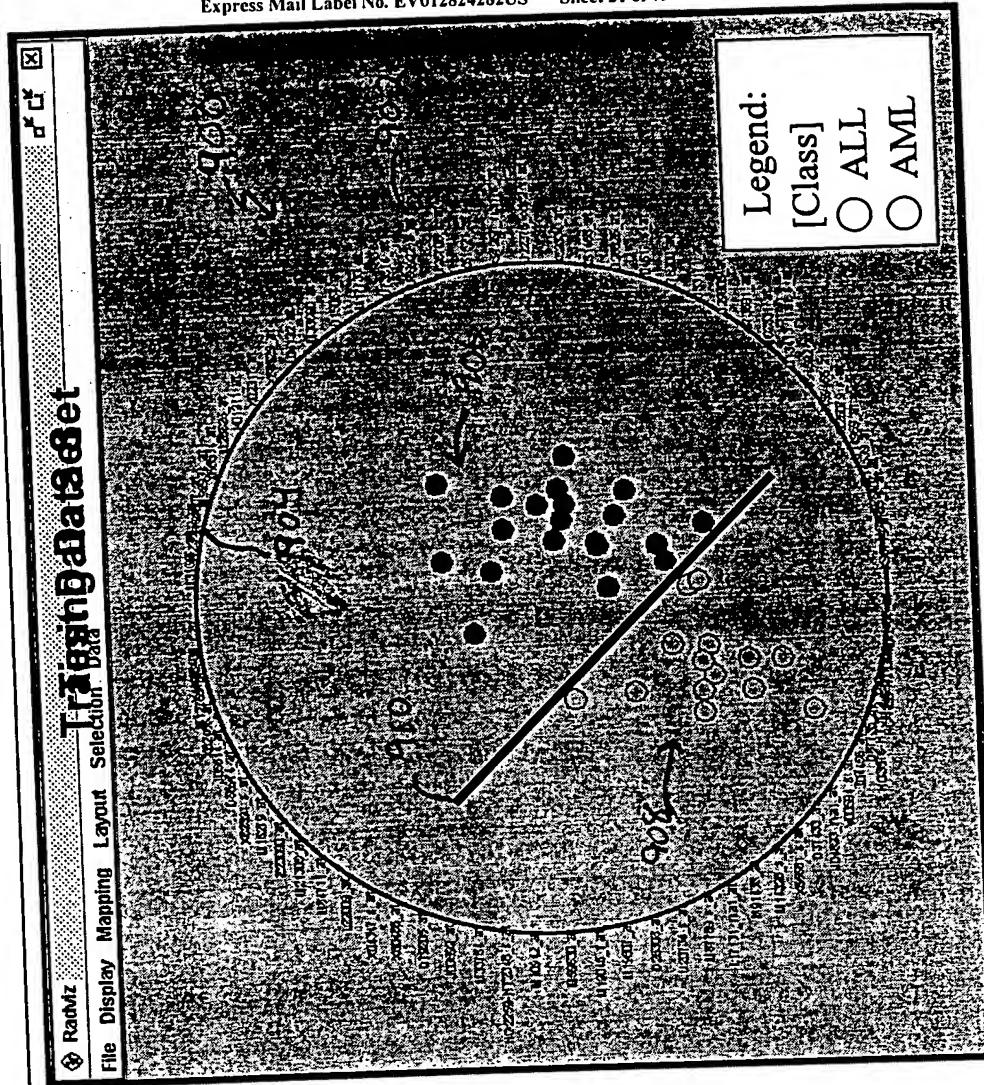


Figure 9

Statistical Metadata

(Affymetrix Absolute Data)

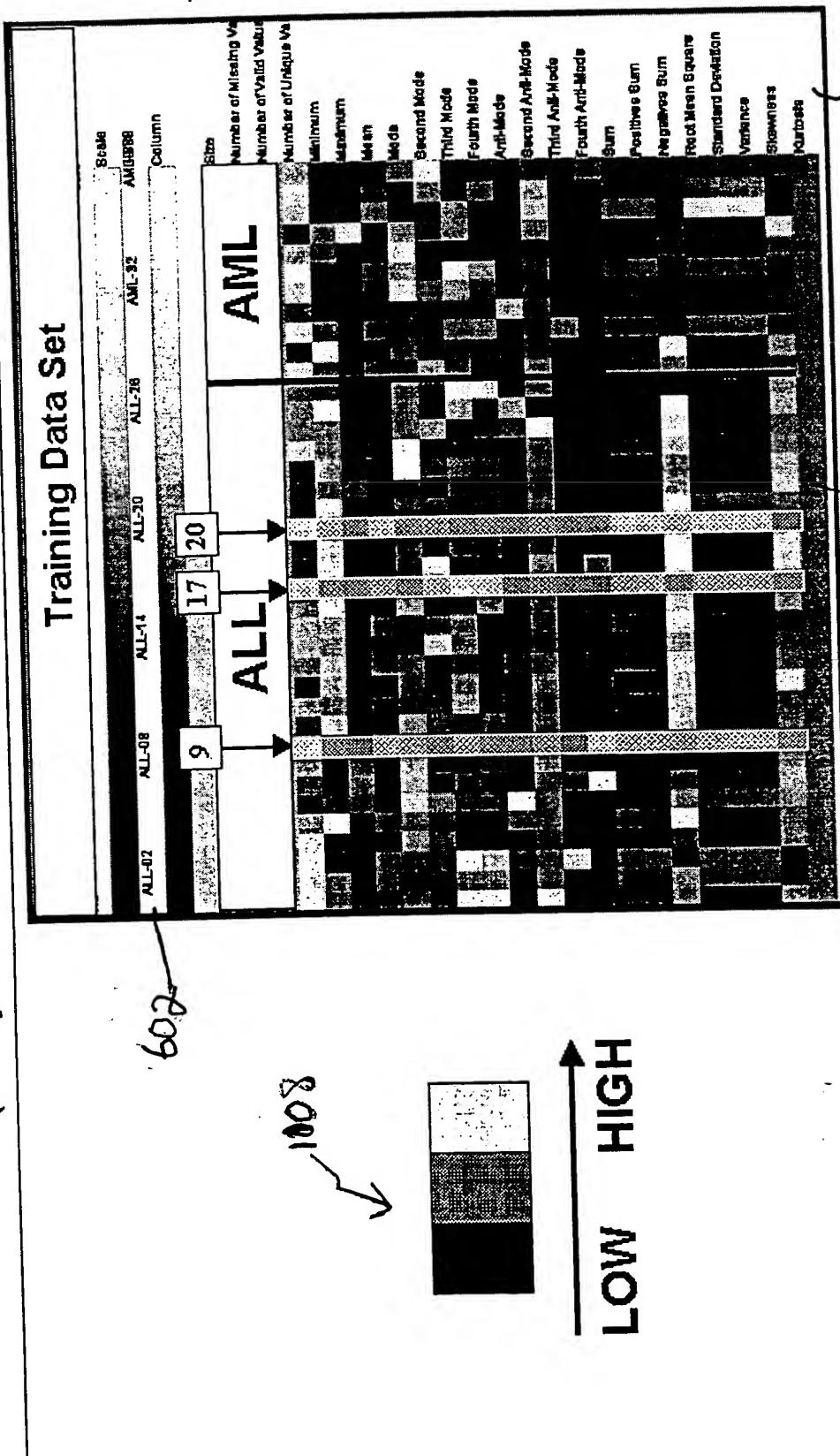
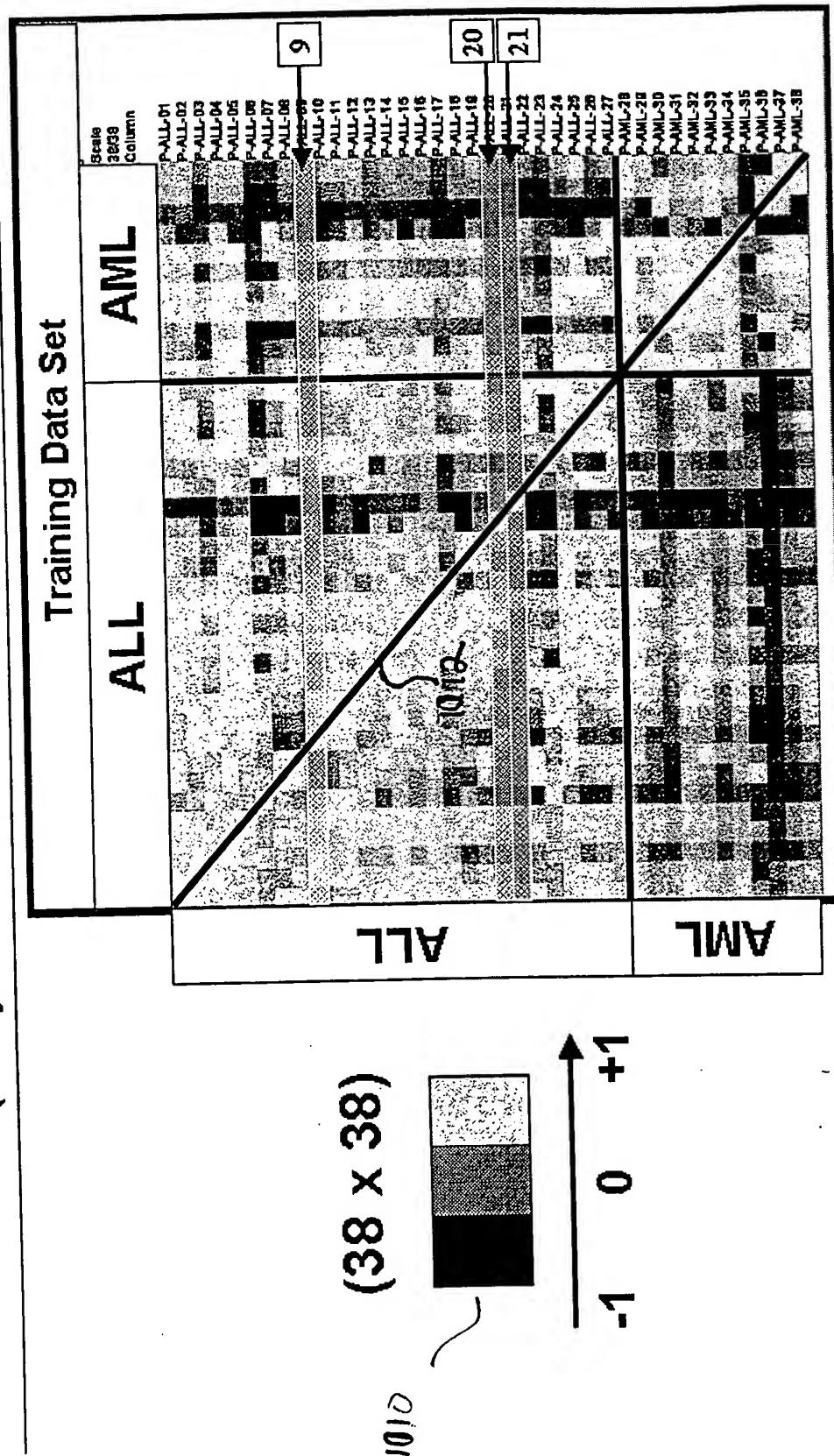


Figure 10A

Pearson Correlation Coefficients

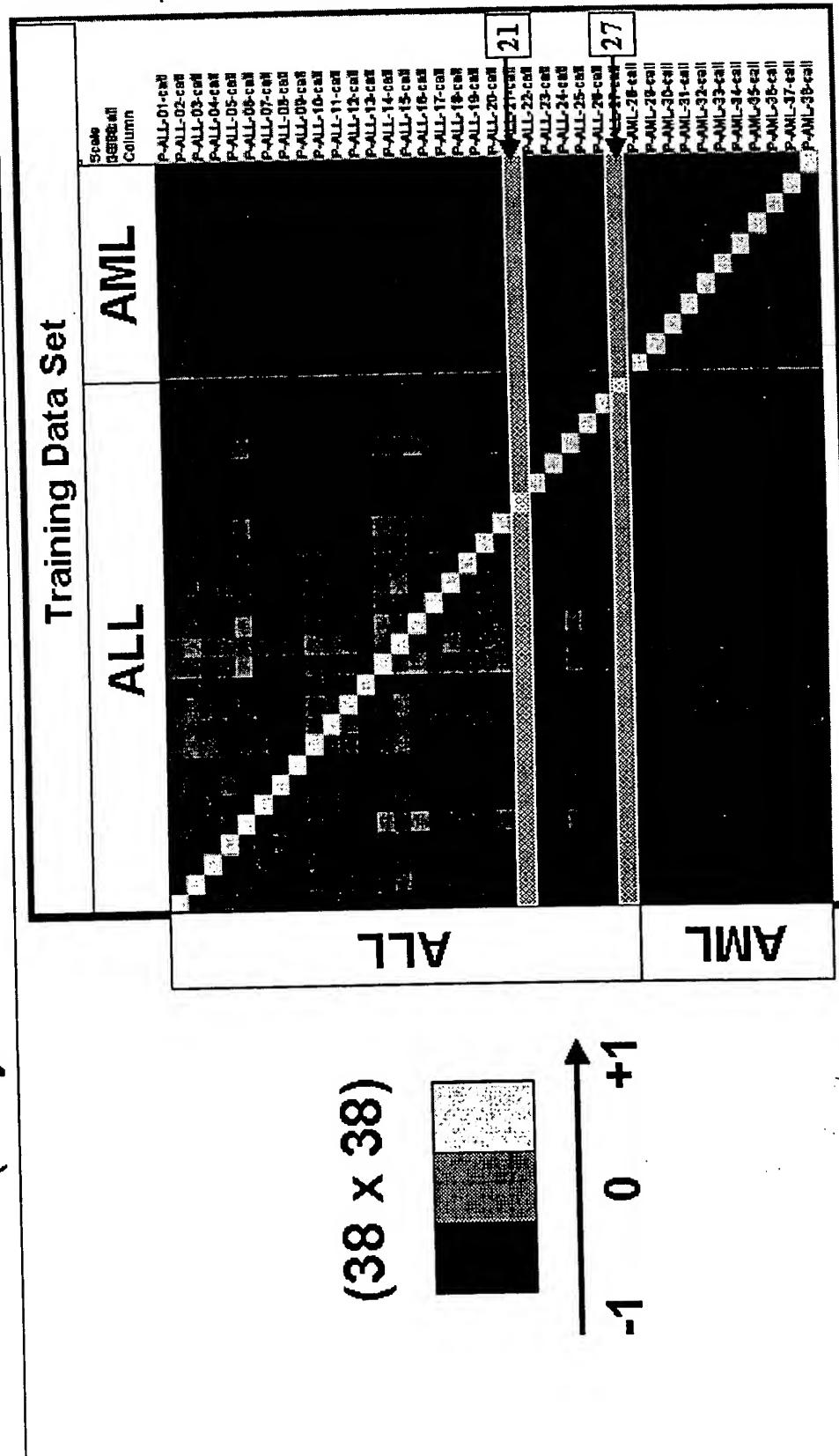
(Affymetrix Absolute Data)

Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 23 of 79



Pearson Correlation Coefficients (Affymetrix Comparative Data)

Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 24 of 79



Final Result

Example Record 20

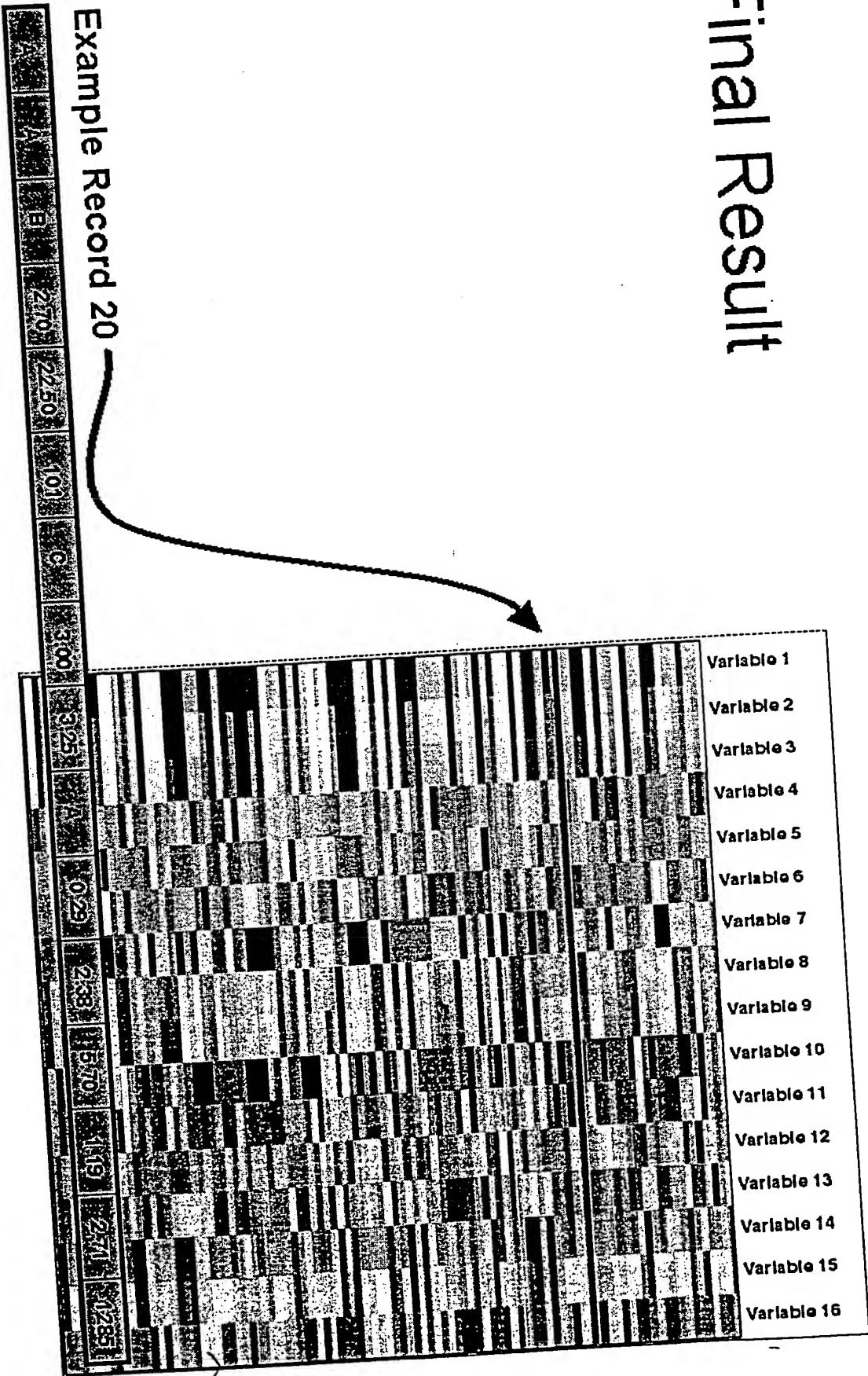


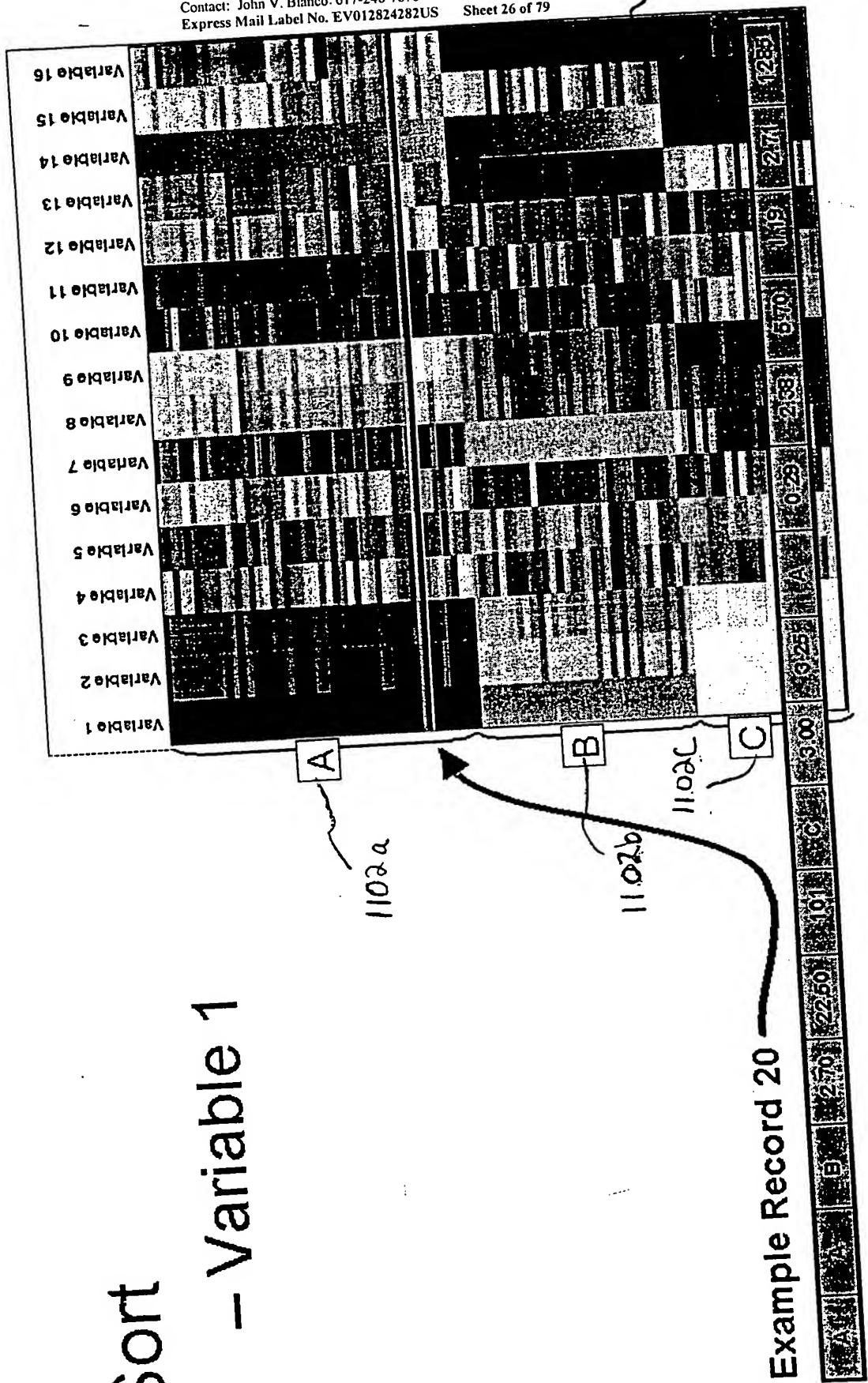
Figure 11A

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Sort - Variable 1



Split and Sort

- Variable 2

- Variable 1

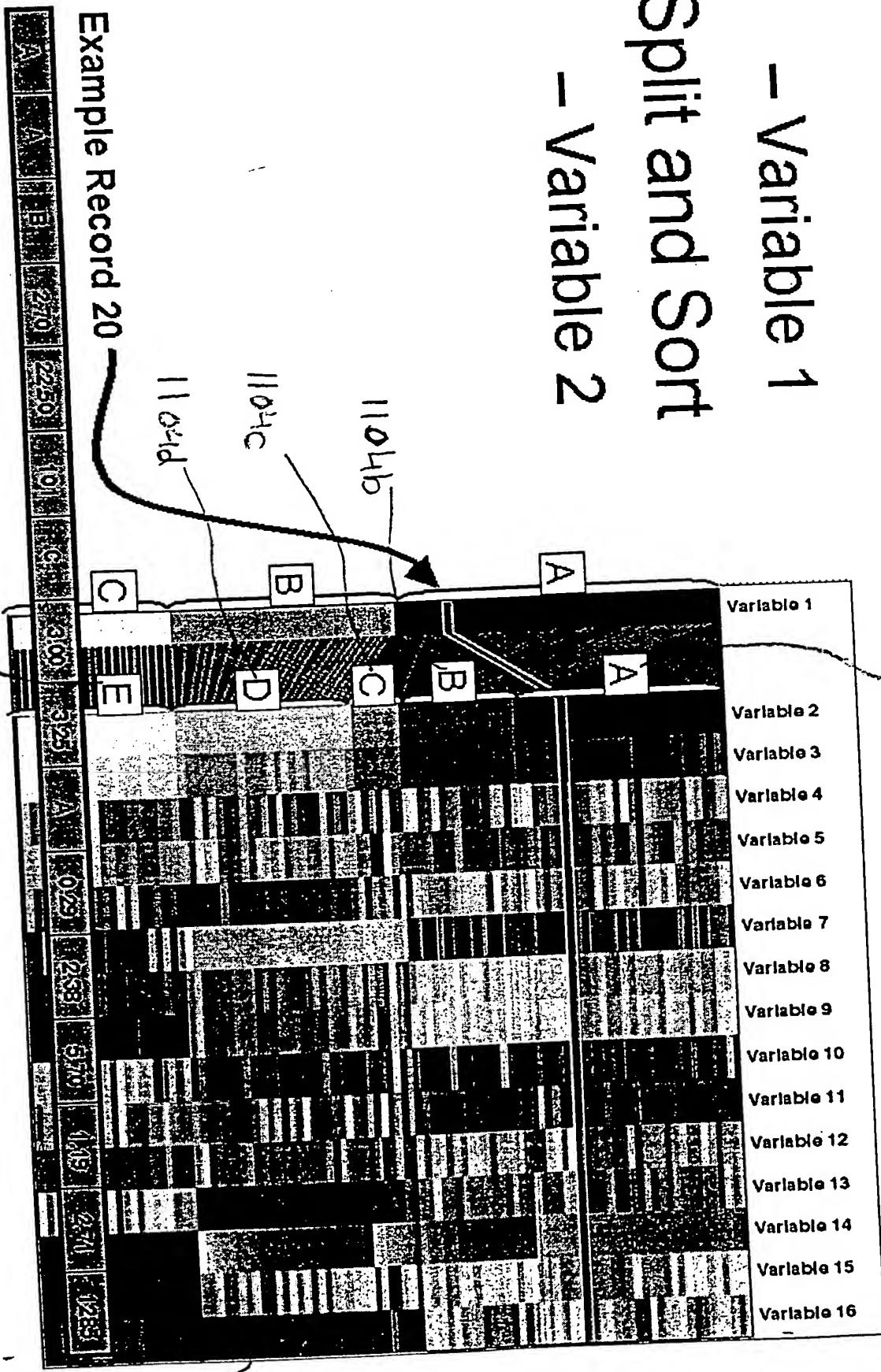
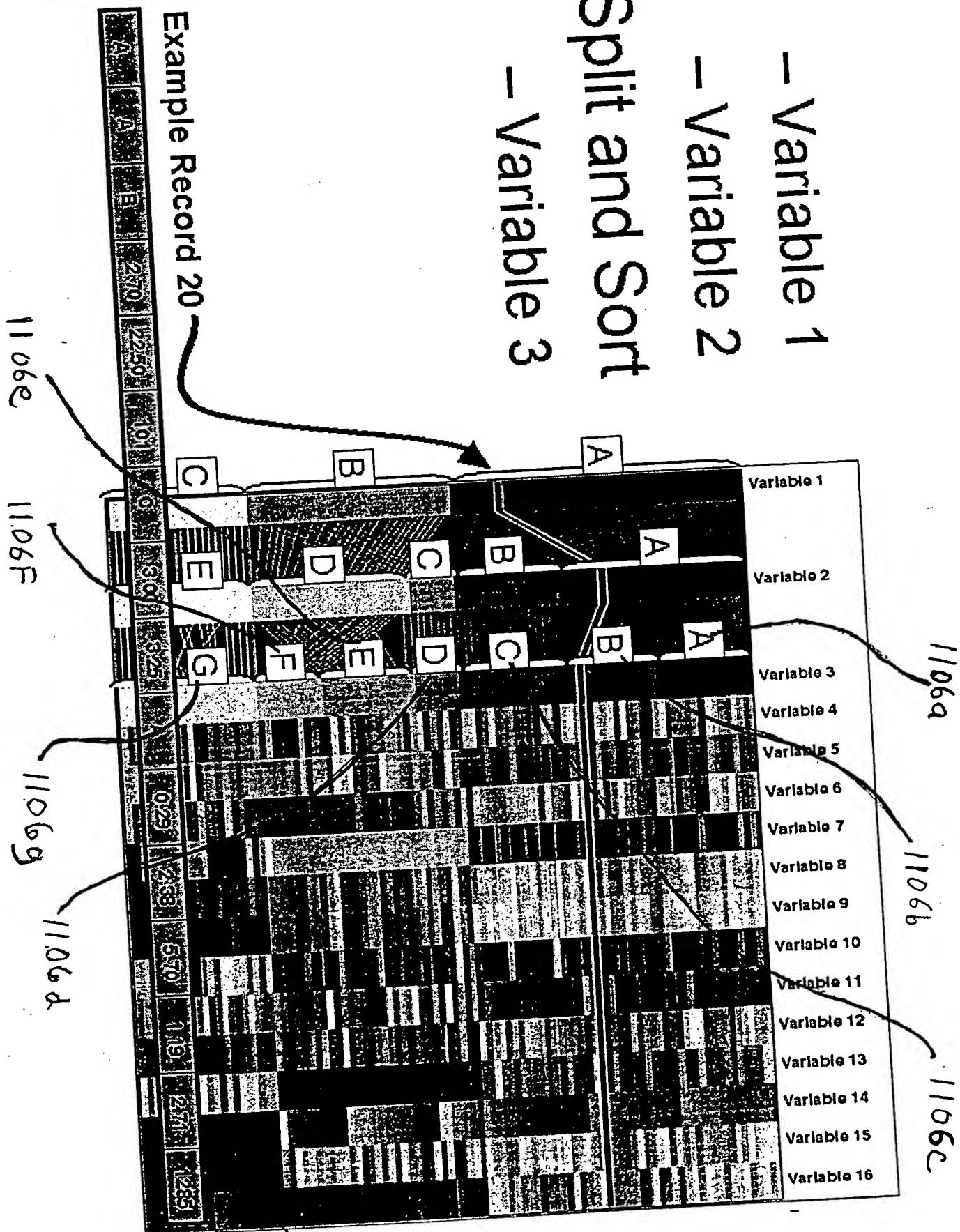


Figure 11C
2218917

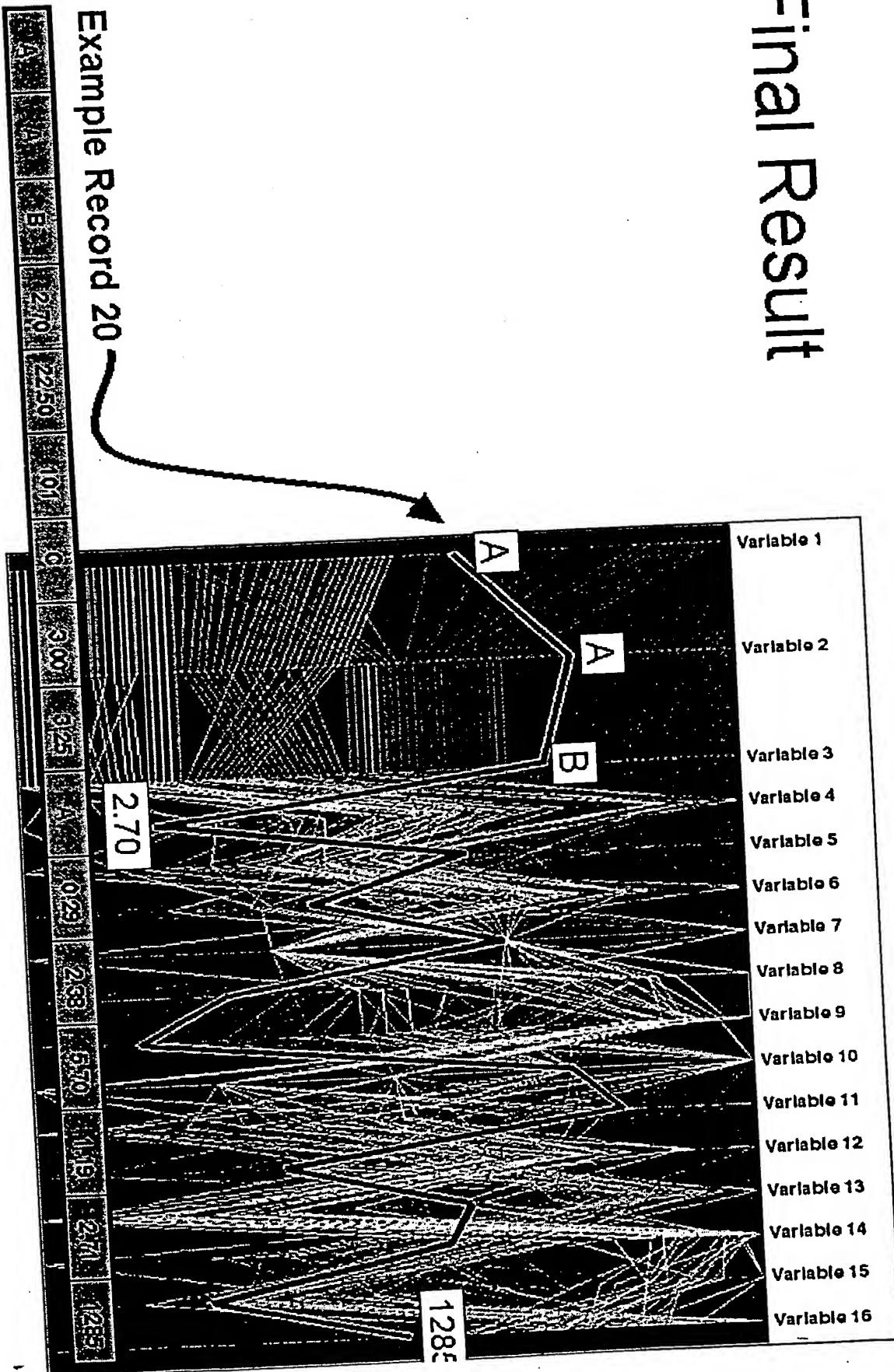
Split and Sort

- Variable 1
- Variable 2
- Variable 3

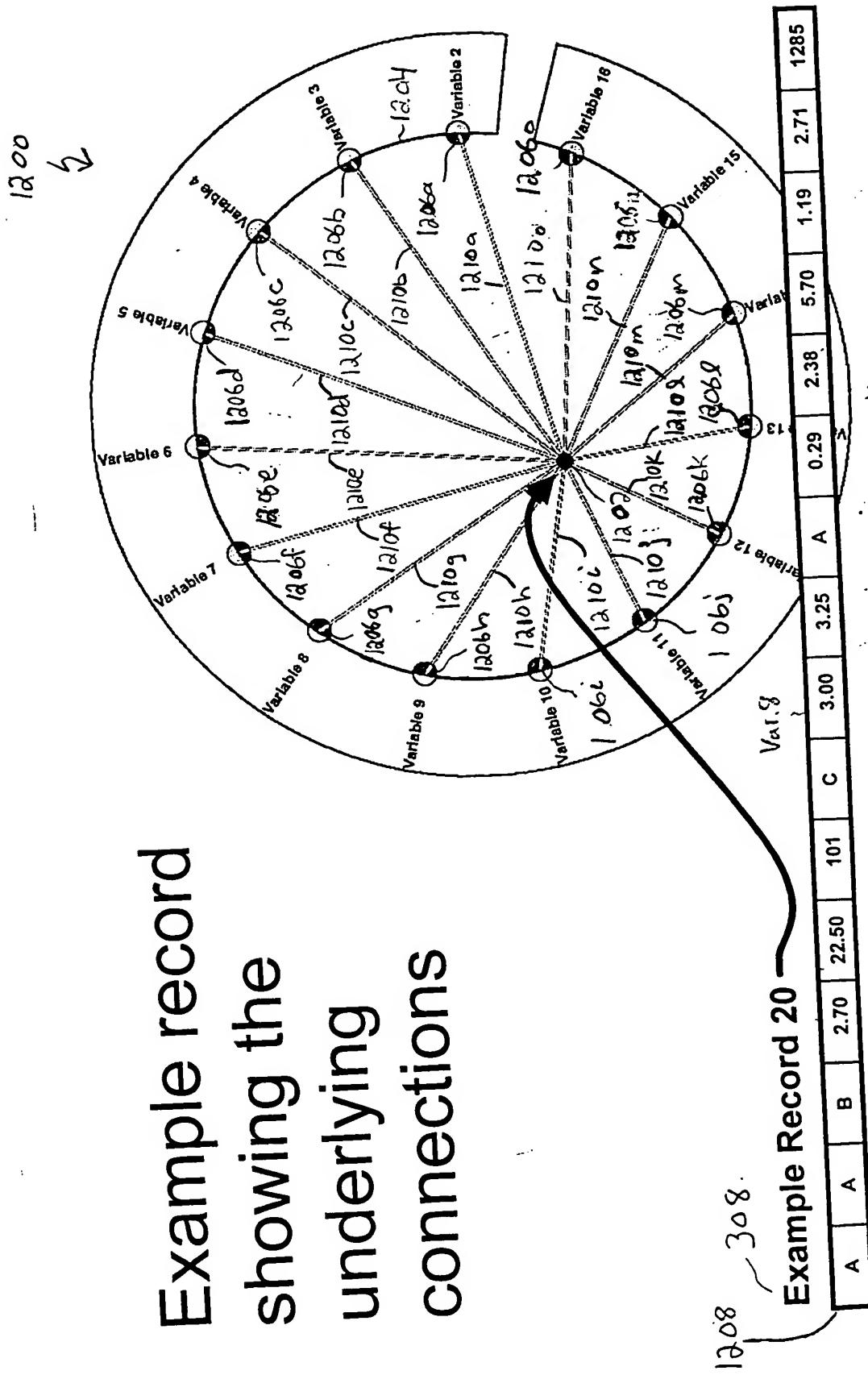


Final Result

Example Record 20



Example record showing the underlying connections



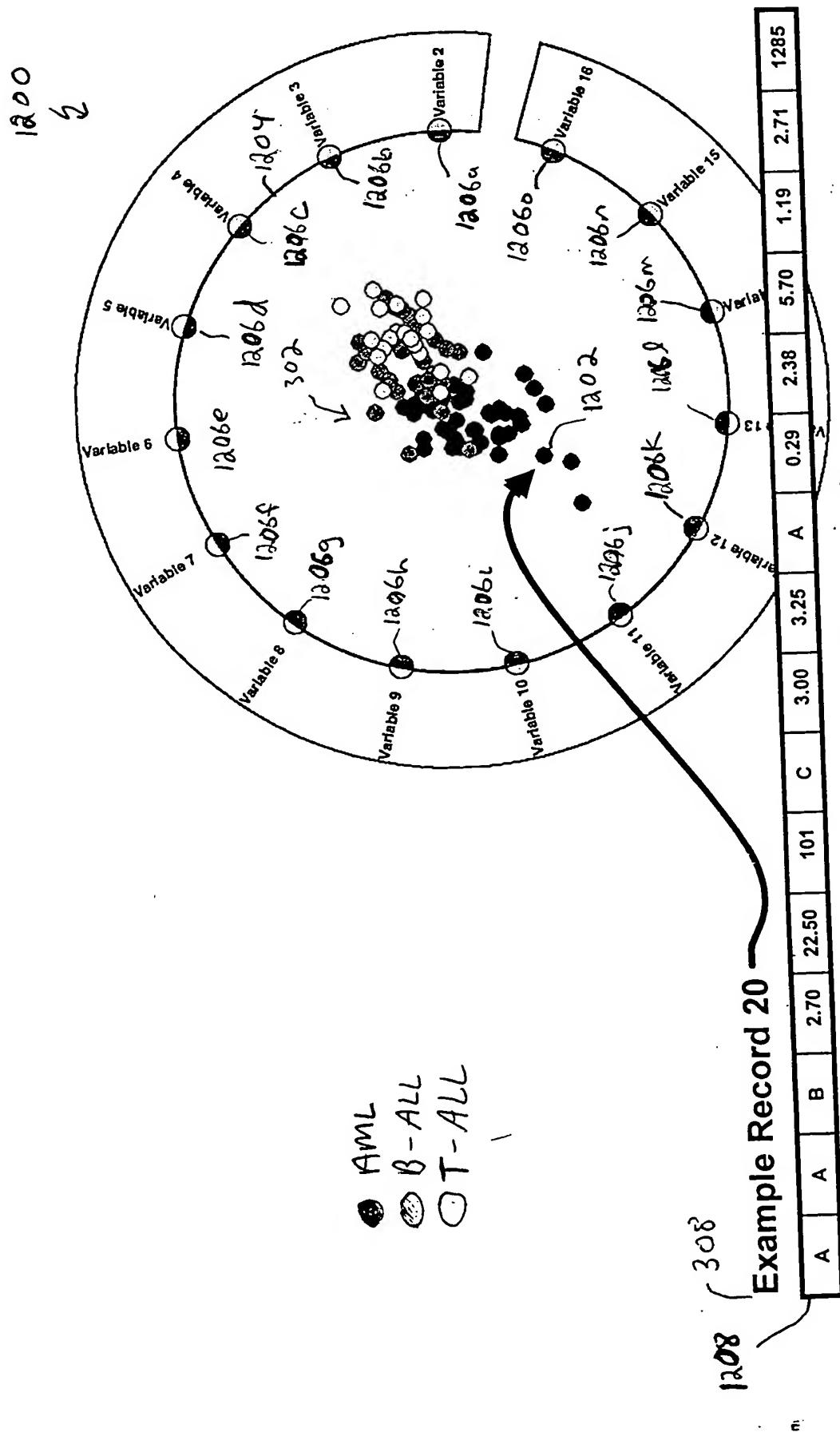


Figure 12B

22598888

Visual Classifier

Three Classes

AML β -ALL T-ALL

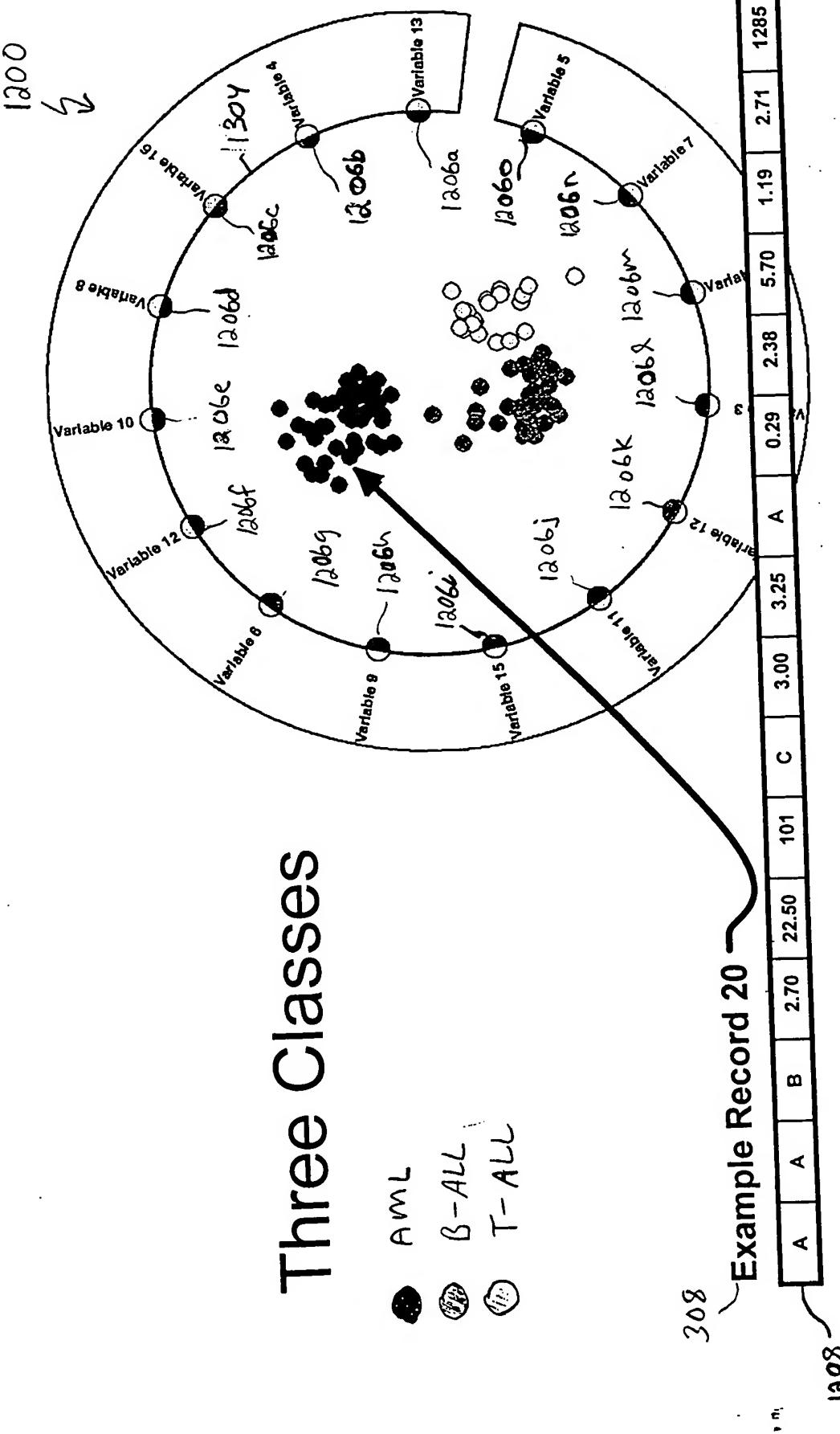


Figure 1a c

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1300

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Inventor(s): Gee et al.
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Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 33 of 79

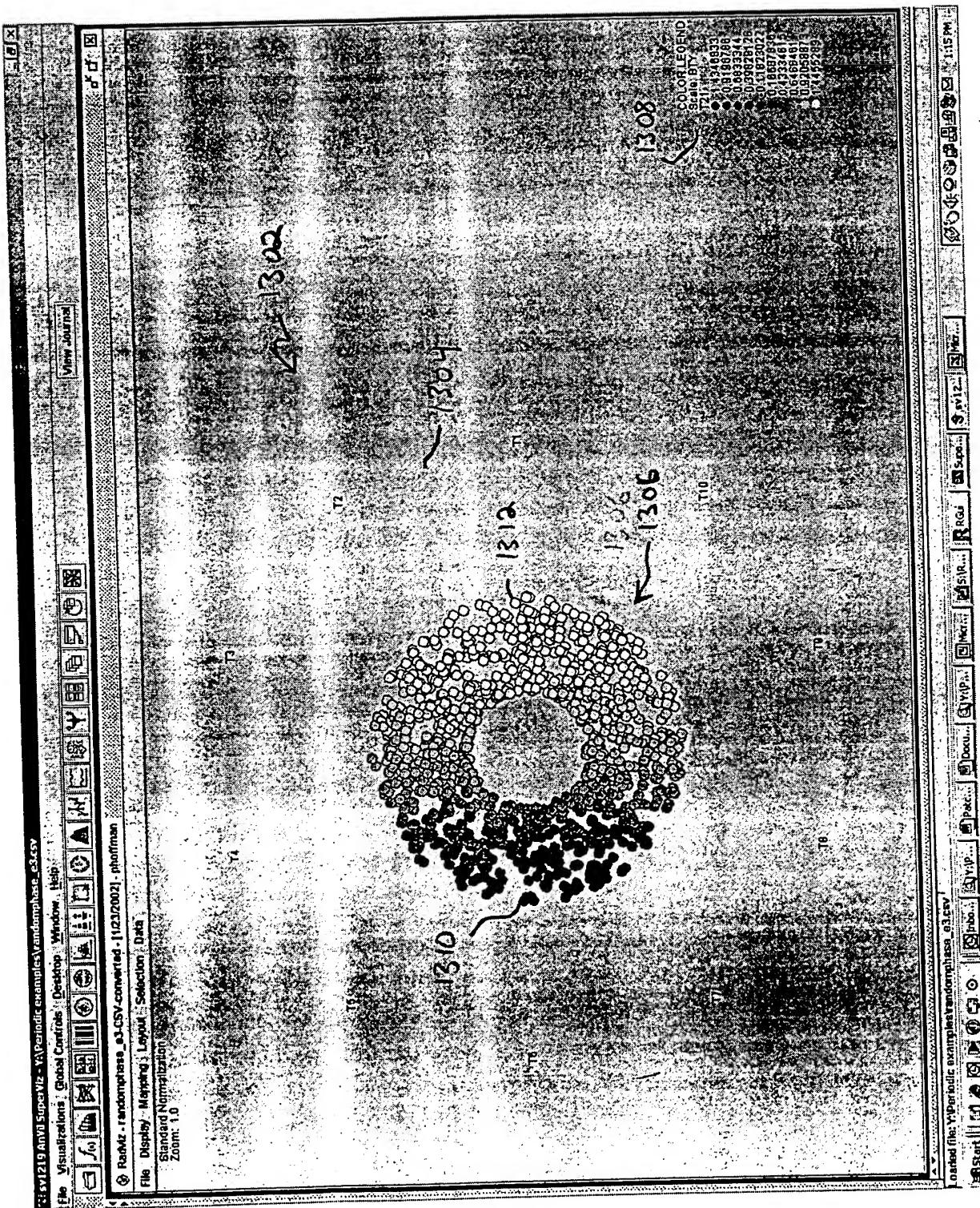


Figure 13A

226937

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 34 of 79

1301

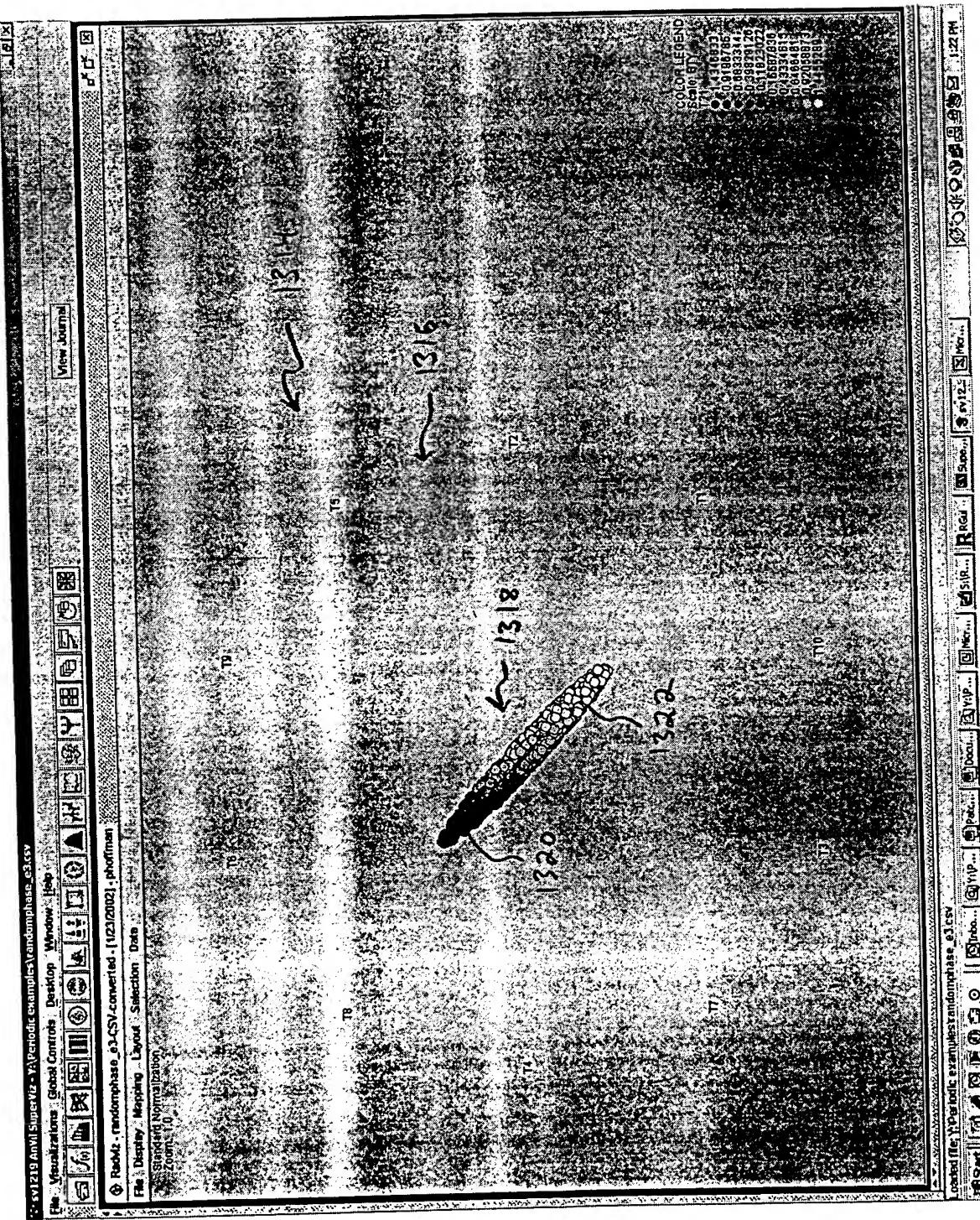
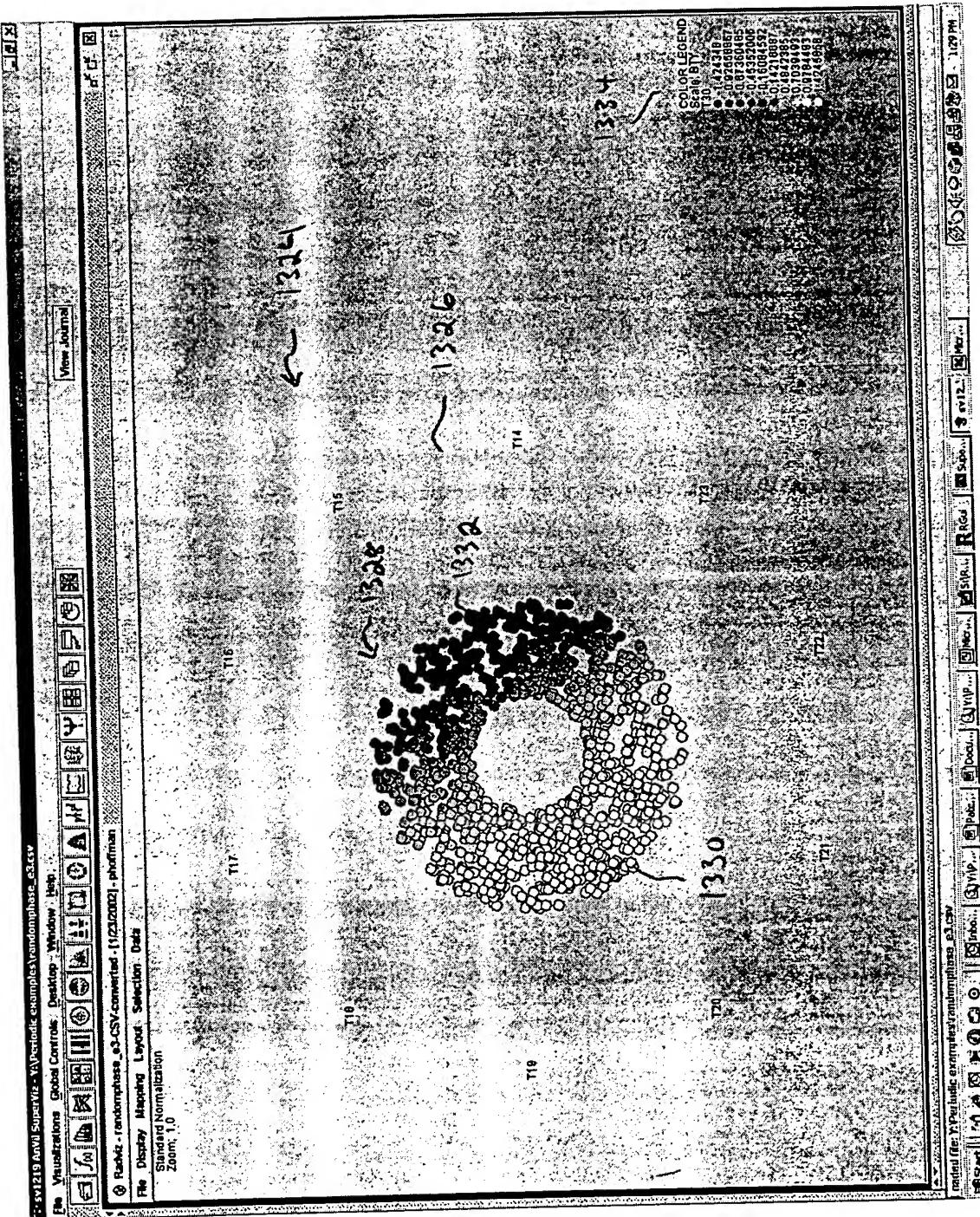


Figure 12B

1303

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 35 of 79



226937

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 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 36 of 79

1306

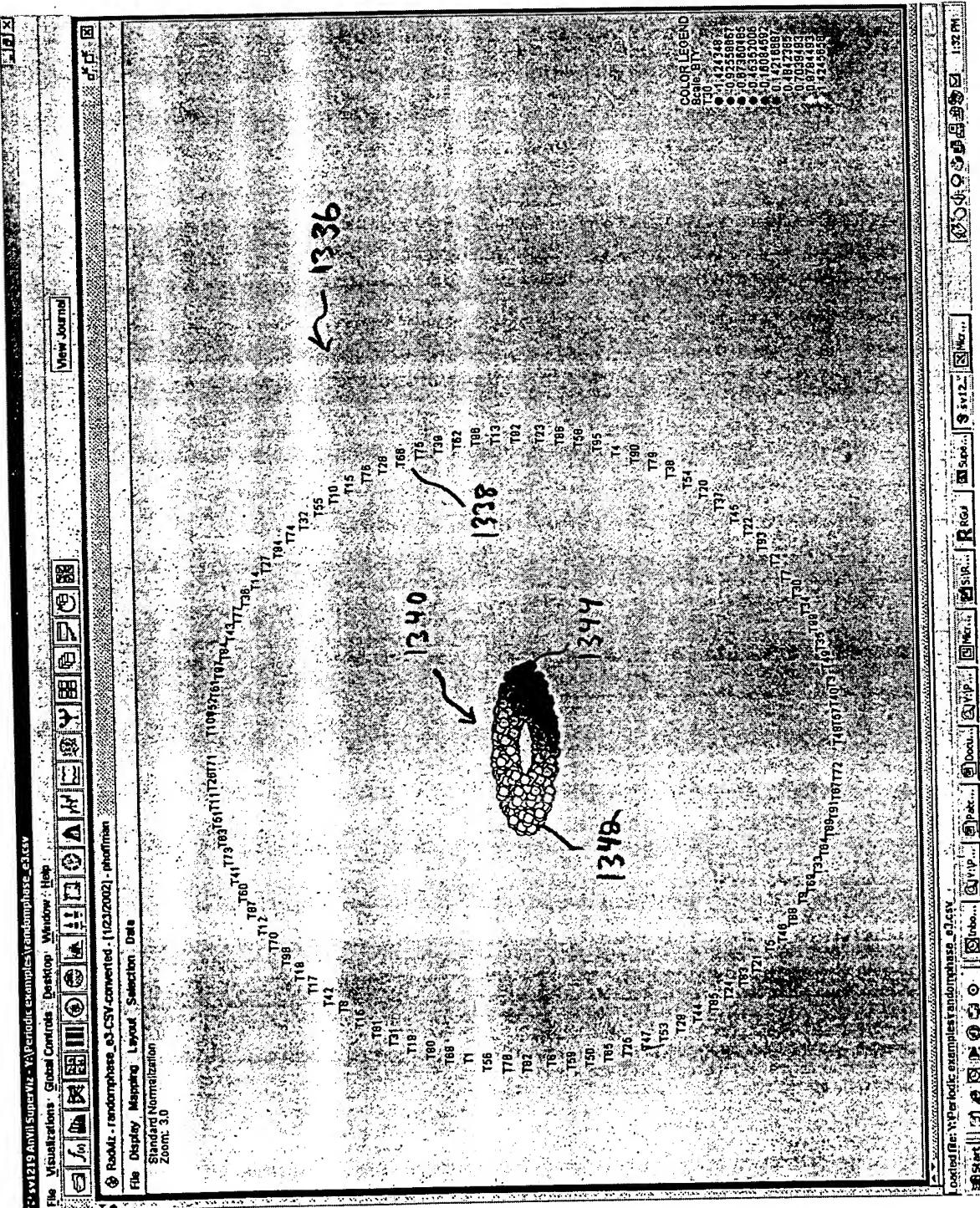


Figure 13D

1307

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 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 37 of 79

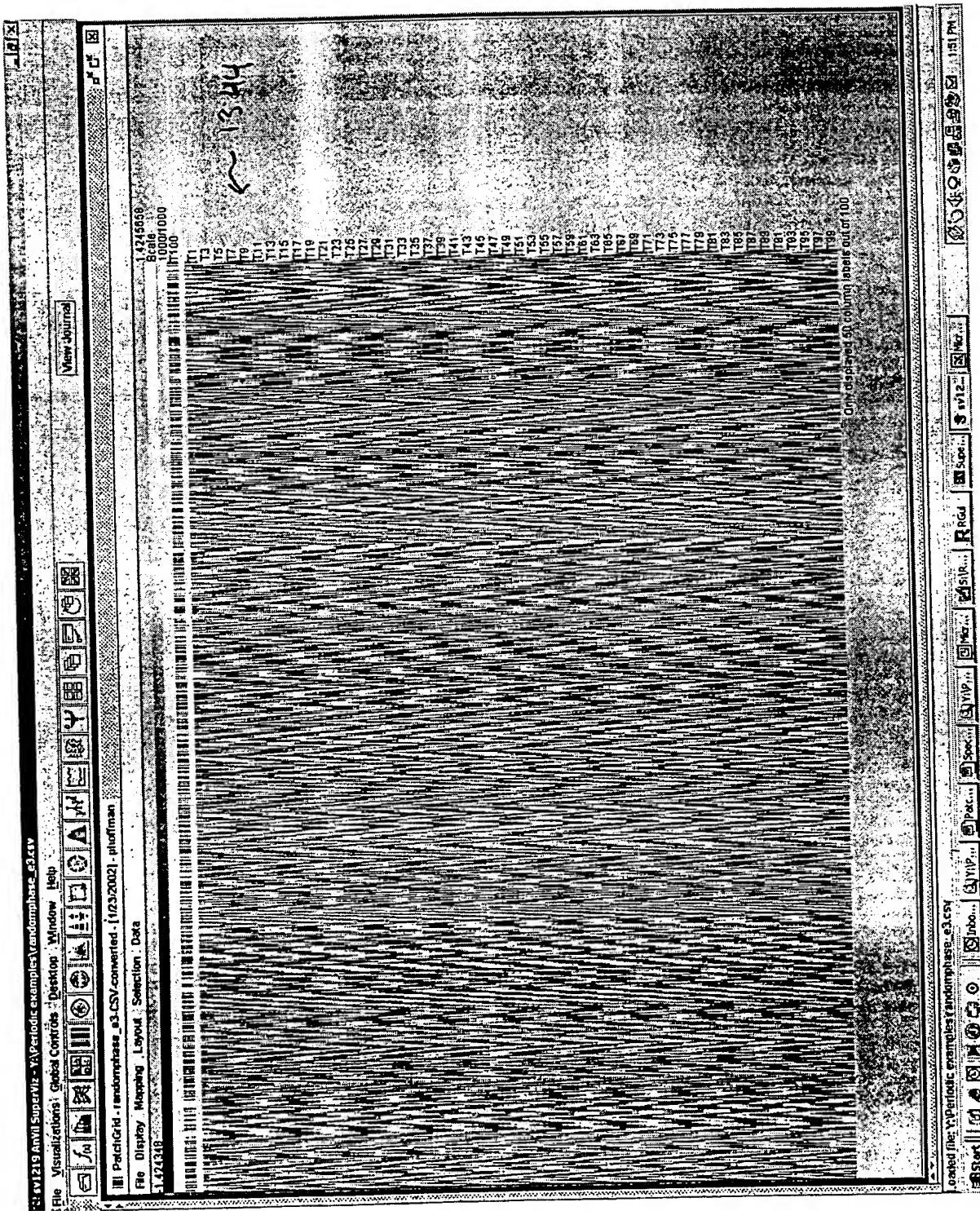


Figure 13 E

dated 11/21/9 anvil SuperVis - v1/Periodic examples/RandomPhase.e3CSV

File Visualizations Global Controls Director Window Help

1474318

File Display Mapping Layout Selection Data

1474318

226937

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1309

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 38 of 79

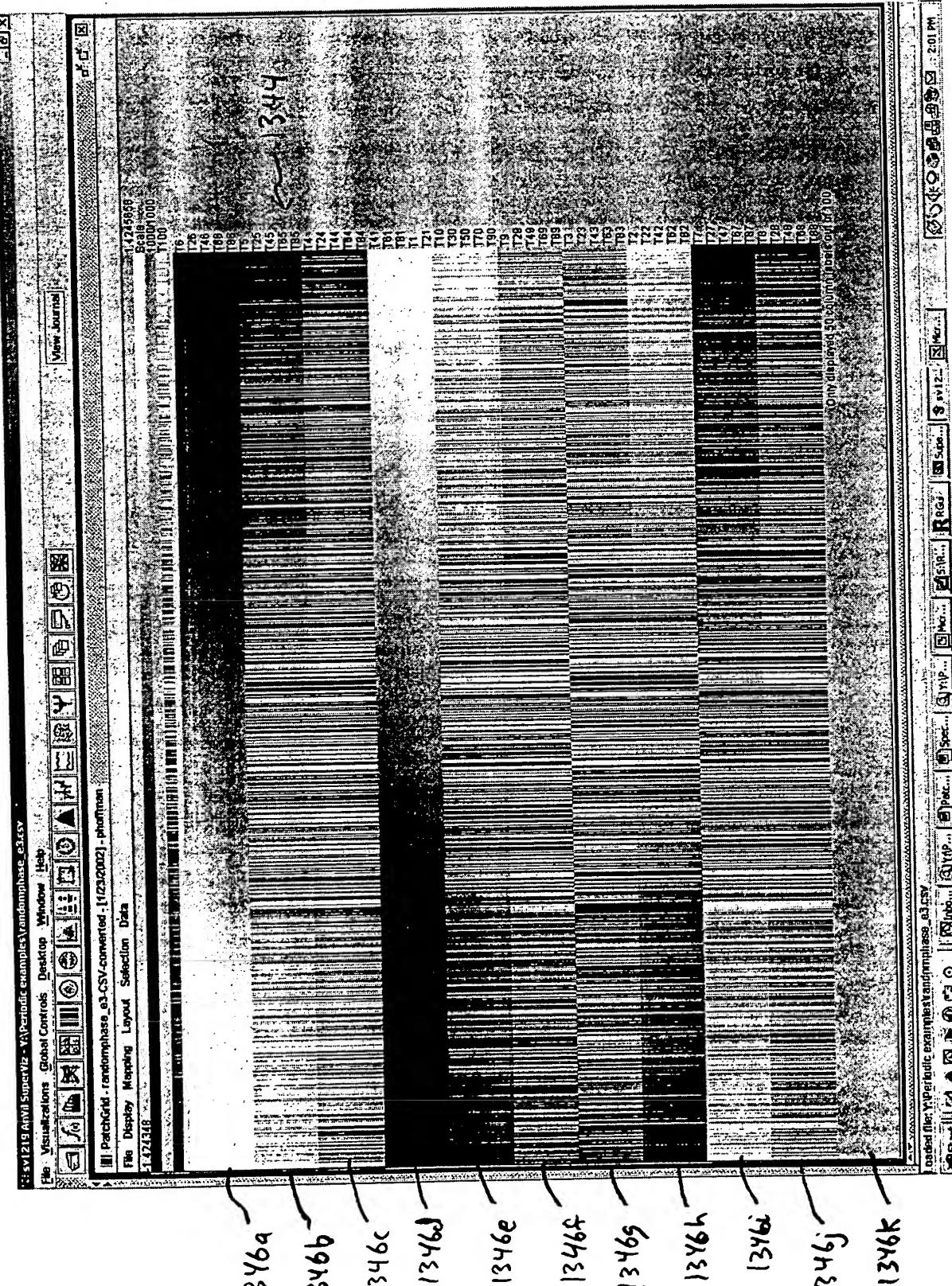


Figure 13F

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US **Sheet 39 of 79**

131

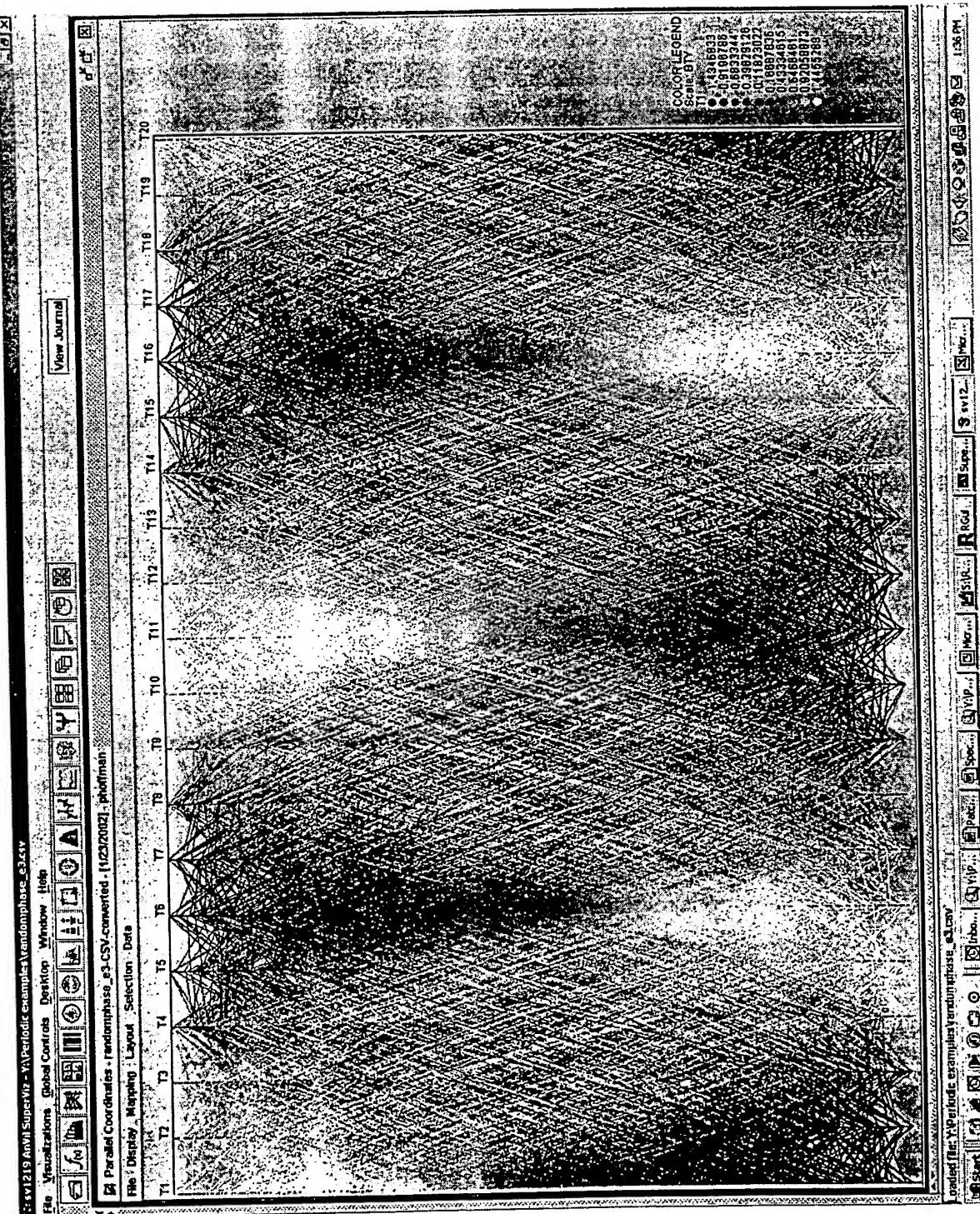
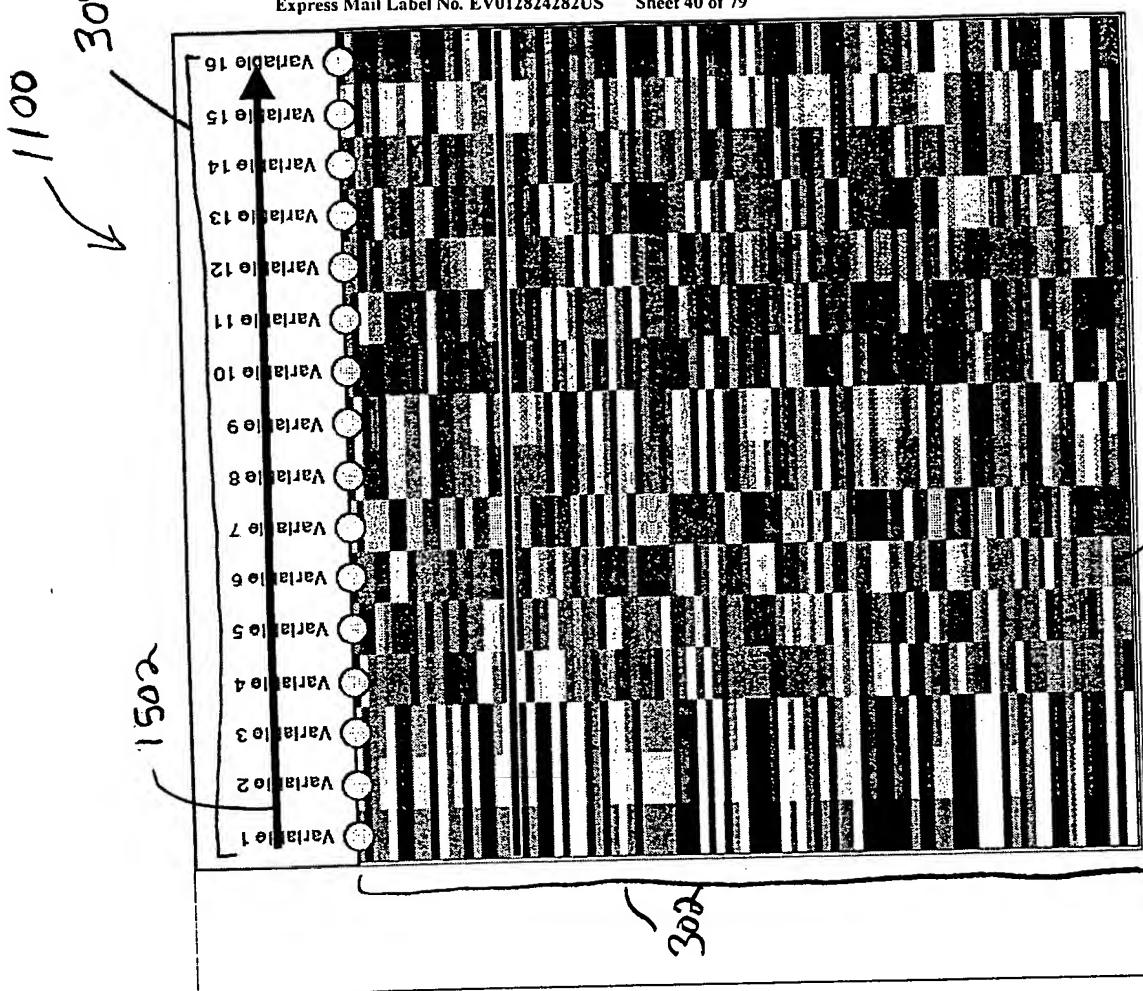


Figure 13G



Transforming a
rectangular to a
radial layout

Figure 15A

Radial Layout

Transforming a
rectangular to a
radial layout

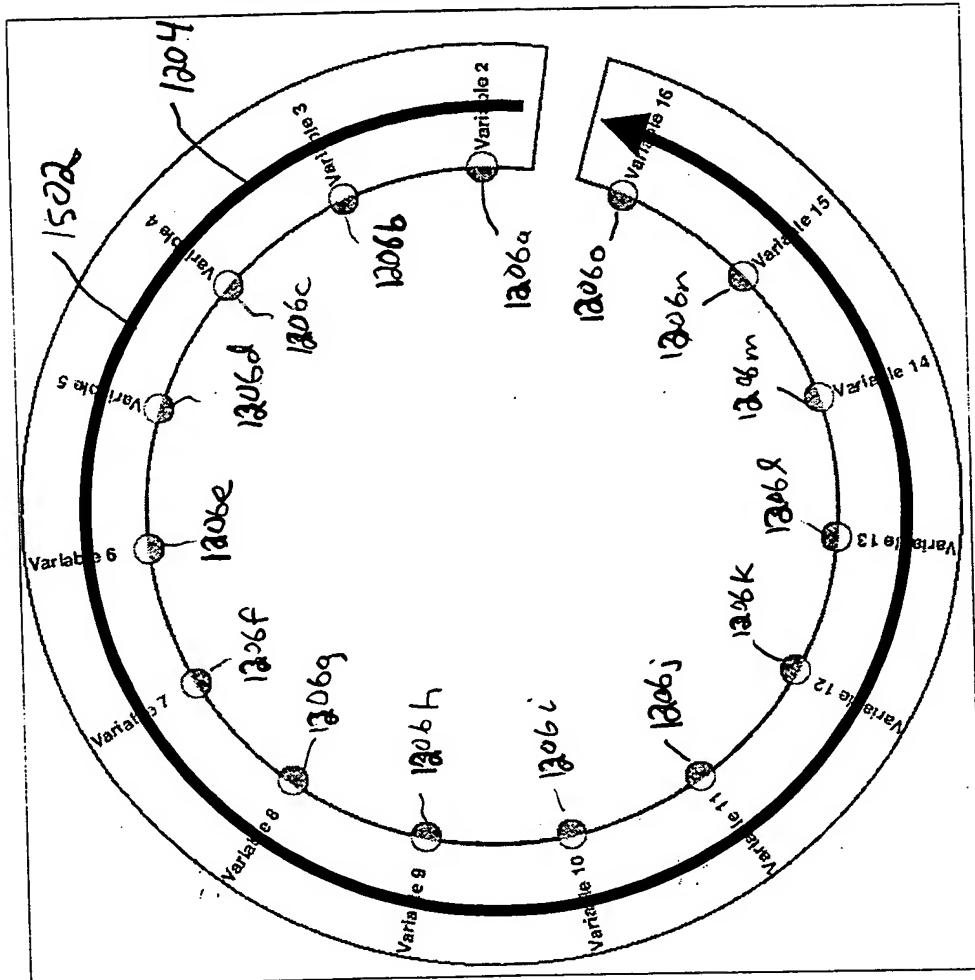


Figure 15B

Radial Layout

Transforming a
rectangular to a
radial layout

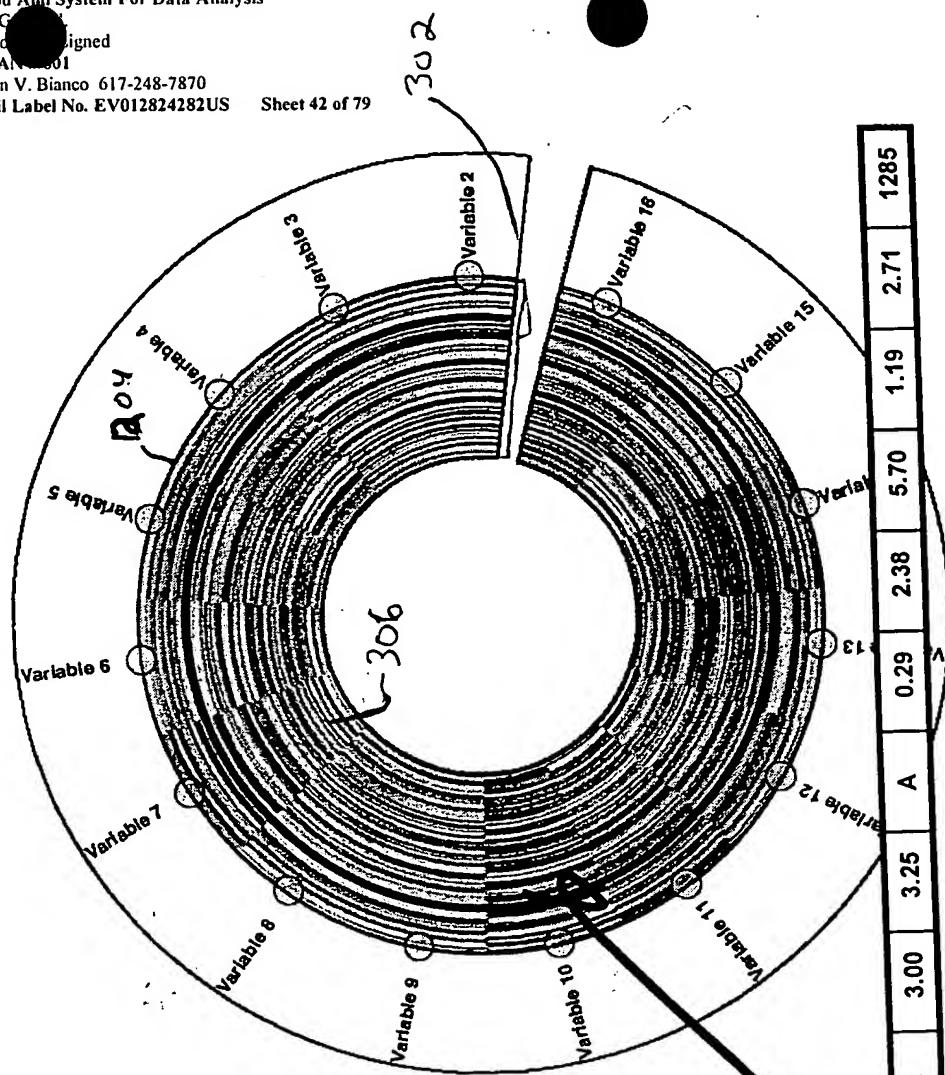


Figure 15 C

A	A	B	2.70	22.50	101	C	3.00	3.25	A	0.29	2.38	5.70	1.19	2.71	1285
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Shape Control – Before Moving Anchors

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 43 of 79

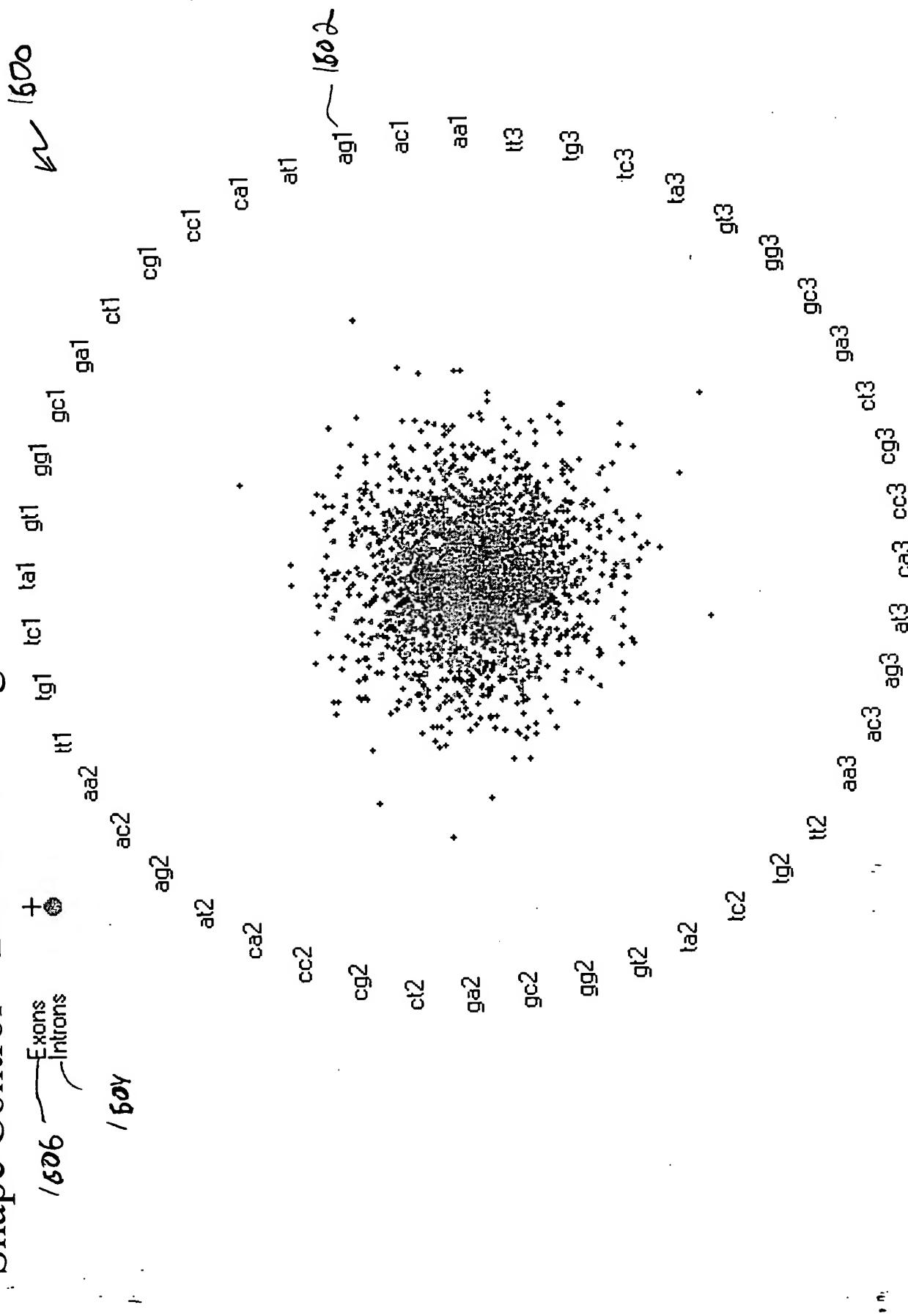
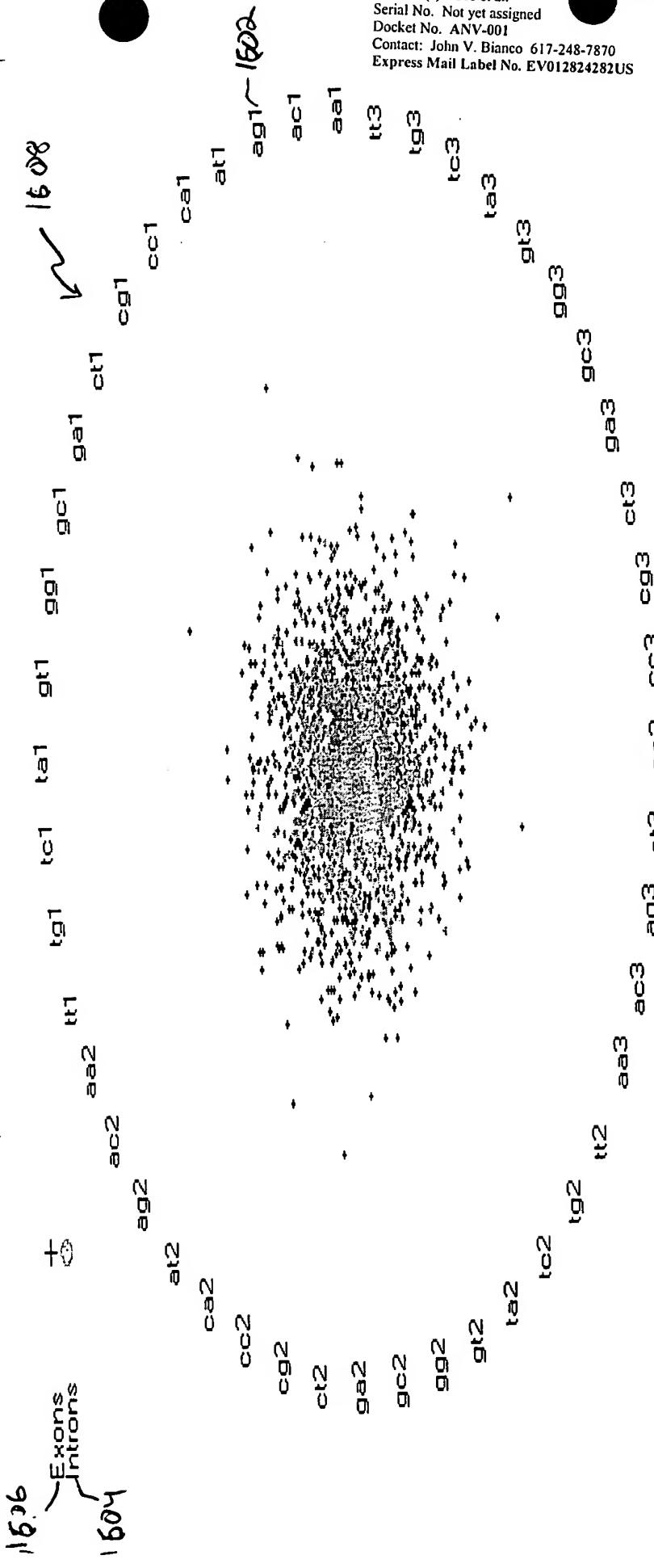


Figure 16 A

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Shape Control – Ellipse

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EVO12824282US

Figure 16B

2218917

Shape Control – Arbitrary Spline

1636 ~ Exons
1604 ~ Introns

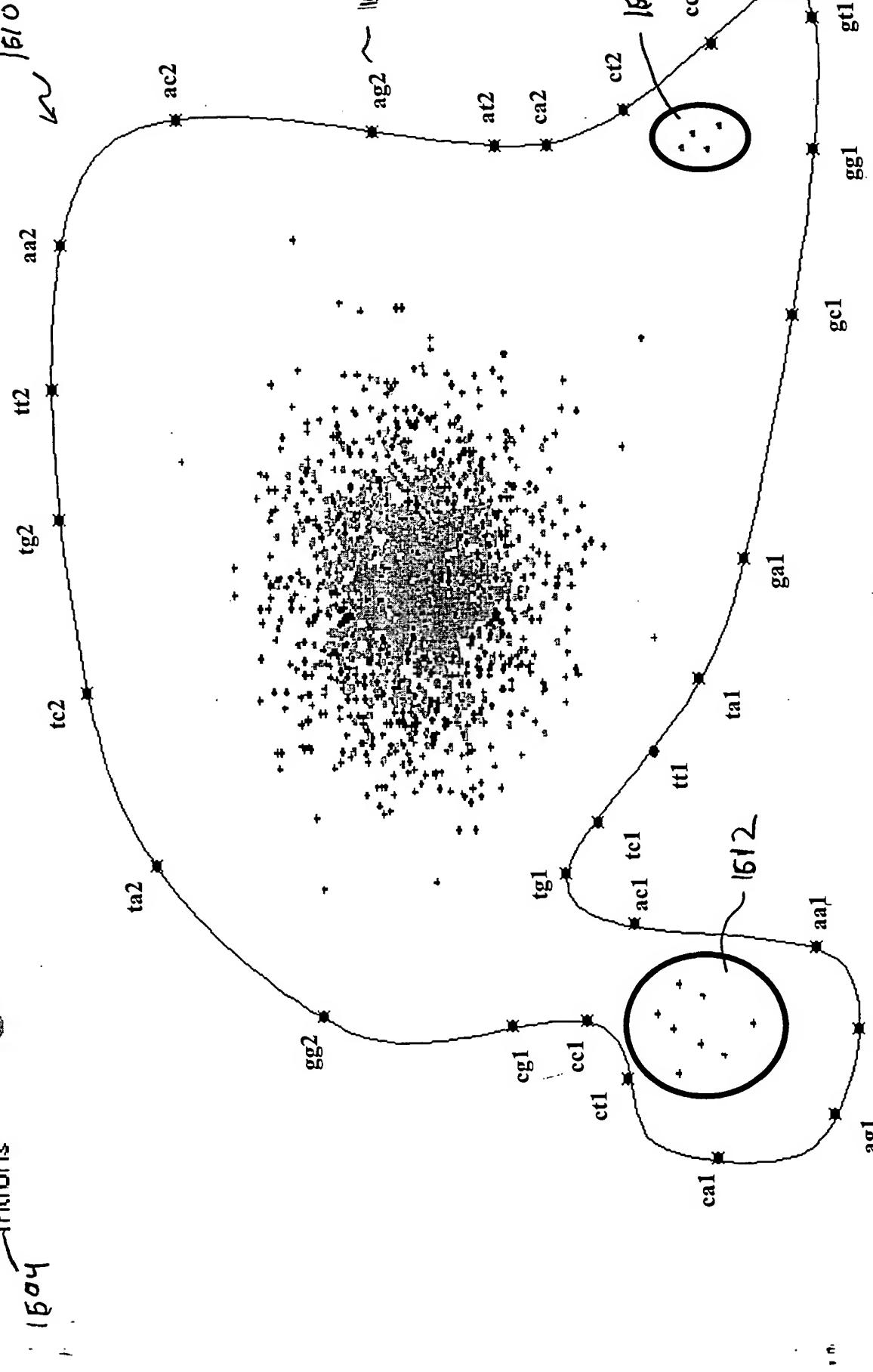


Figure 16C

1620

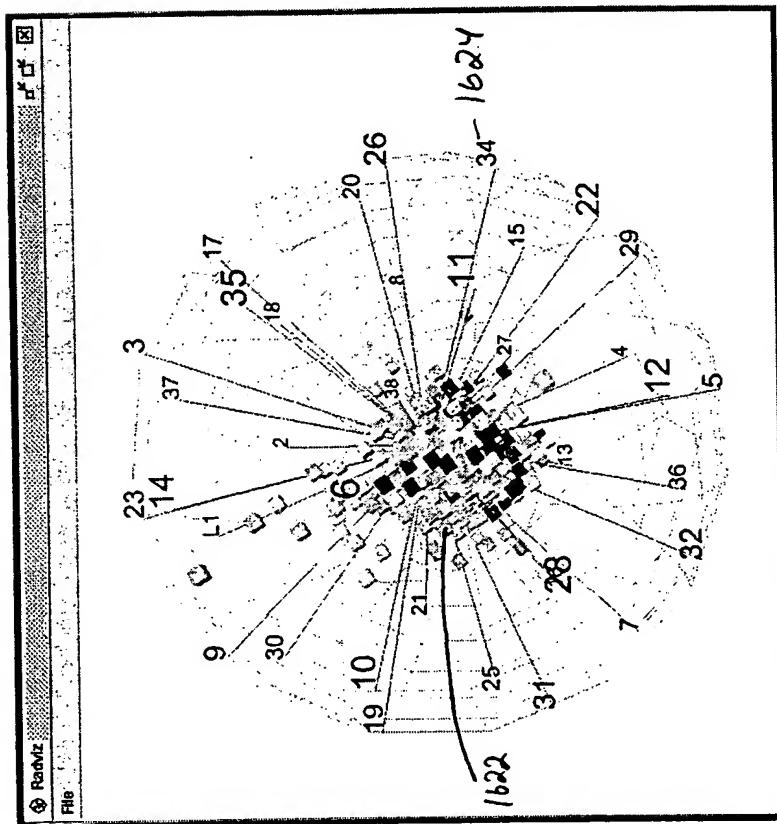
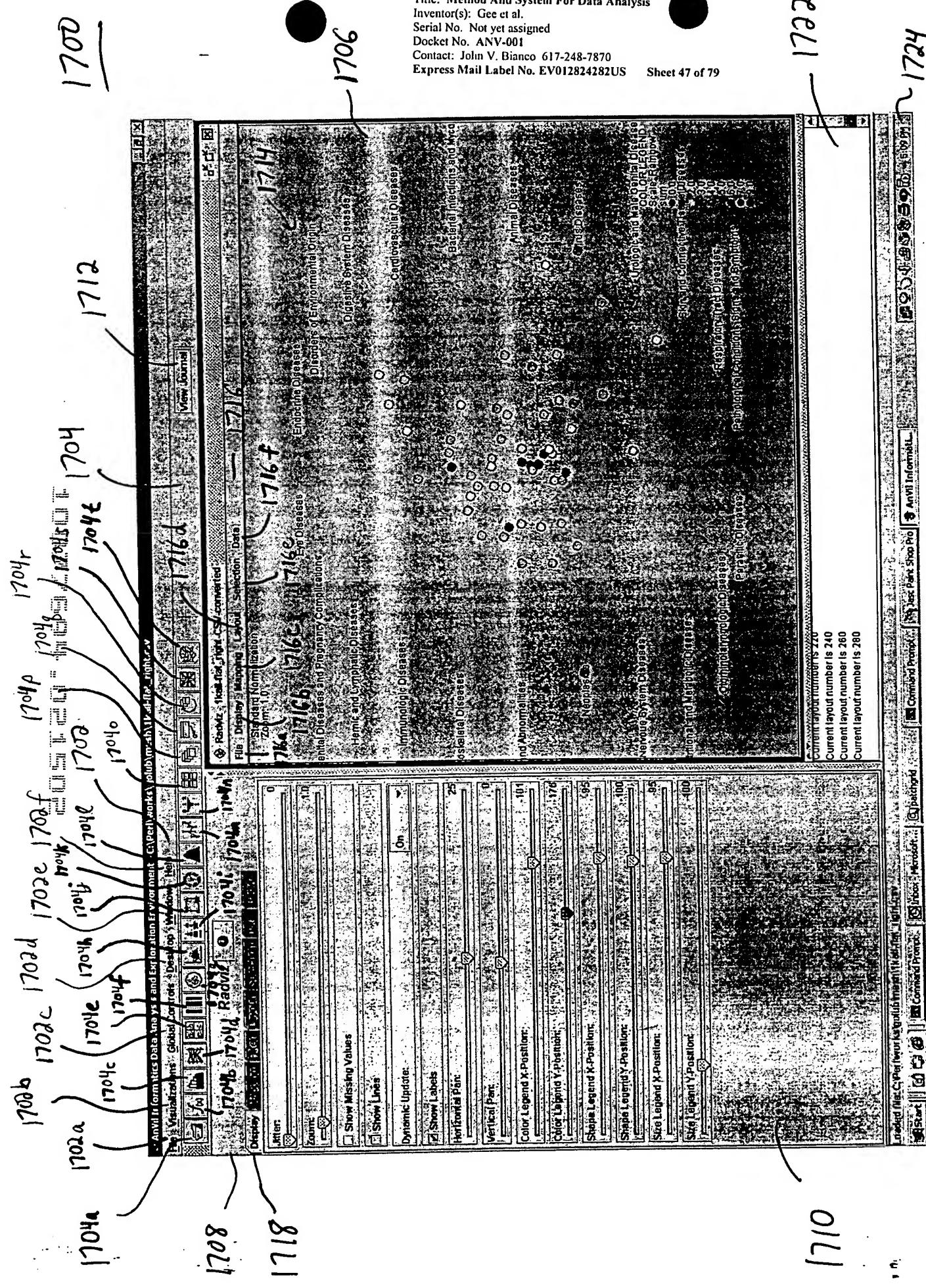


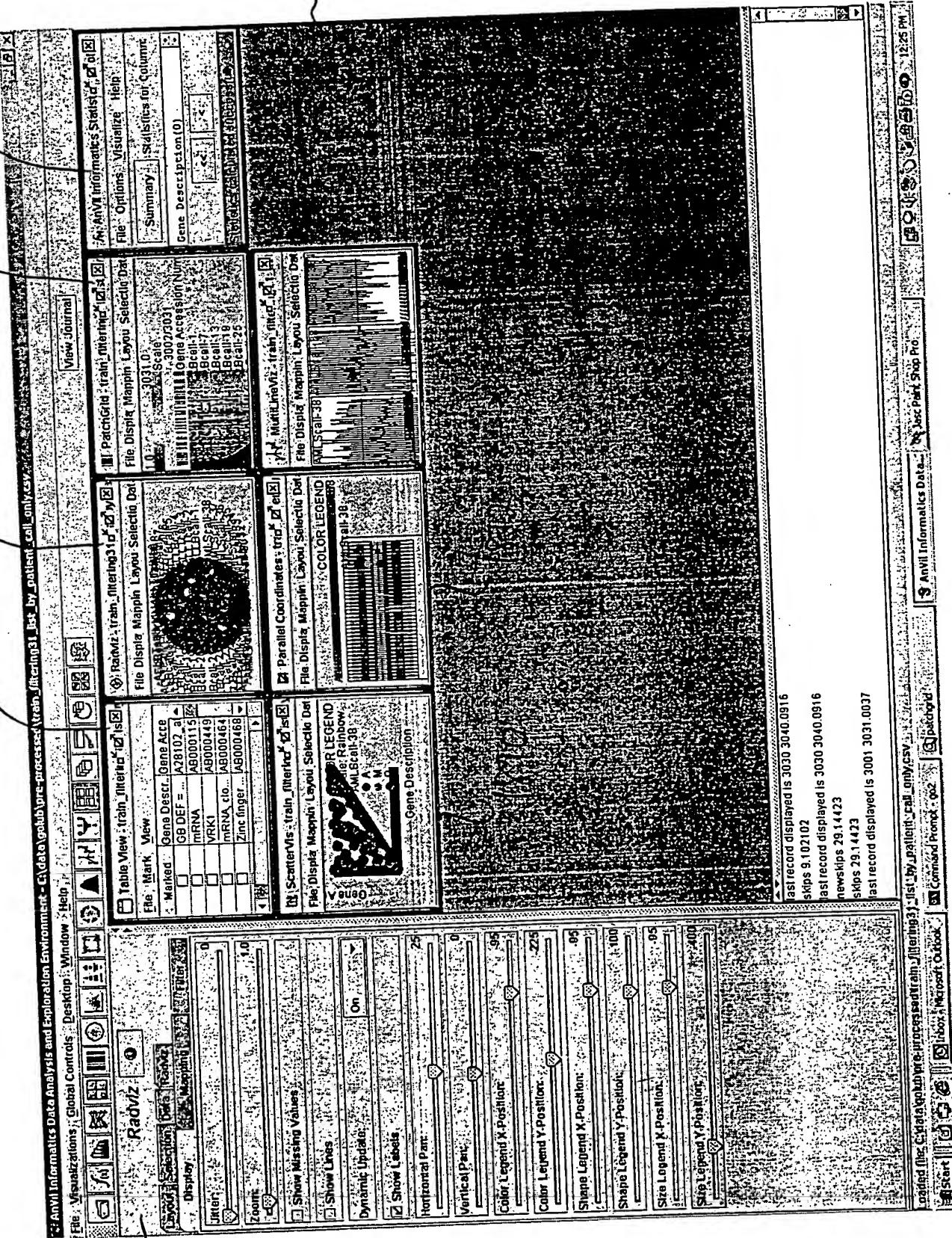
Fig. 16D



2218917

Figure 4 18

Title: Method And System For Data Analysis
 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 48 of 79



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Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 49 of 79

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The screenshot shows a computer desktop with a window titled "Anvil Informatics Data Analysis and Exploration Environment - C:\data\gobib\pre-processed\strain_fittering31.list_by_patient_cell_only.csv". The window contains several sub-menus and toolbars. A prominent toolbar at the top includes icons for zoom, display, and various analysis functions like "Parallel Coordinates", "ScatterVis", and "Table View". Below this is another toolbar with icons for "Zoom In", "Zoom Out", "Show Lines", "Dynamic Update", "Show Labels", "Horizontal Paint", "Vertical Paint", "Color Legend/Position", "Shape Legend X-Position", "Shape Legend Y-Position", "Size Legend X-Position", and "Size Legend Y-Position". The main area of the window displays a grid of data with columns labeled "Gene", "Gene Descri...", "Gene Accession", "GB DEF = ...", "mRNA", "VRK1", "mRNA ID...", "mRNA ID...", and "Zinc finger ...". A context menu is open over this grid, listing options such as "PatchGrid - train_fittering31.list", "Parallel Coordinates - train_fittering31.list", "ScatterVis - train_fittering31.list", "Table View - train_fittering31.list", "File", "Edit", "View", "Tools", "Help", and "File", "Edit", "View", "Tools", "Help". The status bar at the bottom provides information about the last record displayed (3001 3031.0037), skips (9, 1021, 02), and command prompt (cmd). The title bar also indicates the file path: "C:\data\gobib\pre-processed\strain_fittering31.list_by_patient_cell_only.csv".

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Figure 19

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Title: Method And System For Data Analysis
Inventor(s): [REDACTED] et al.
Serial No. [REDACTED] assigned
Docket No. [REDACTED] 001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US

Sheet 50 of 79

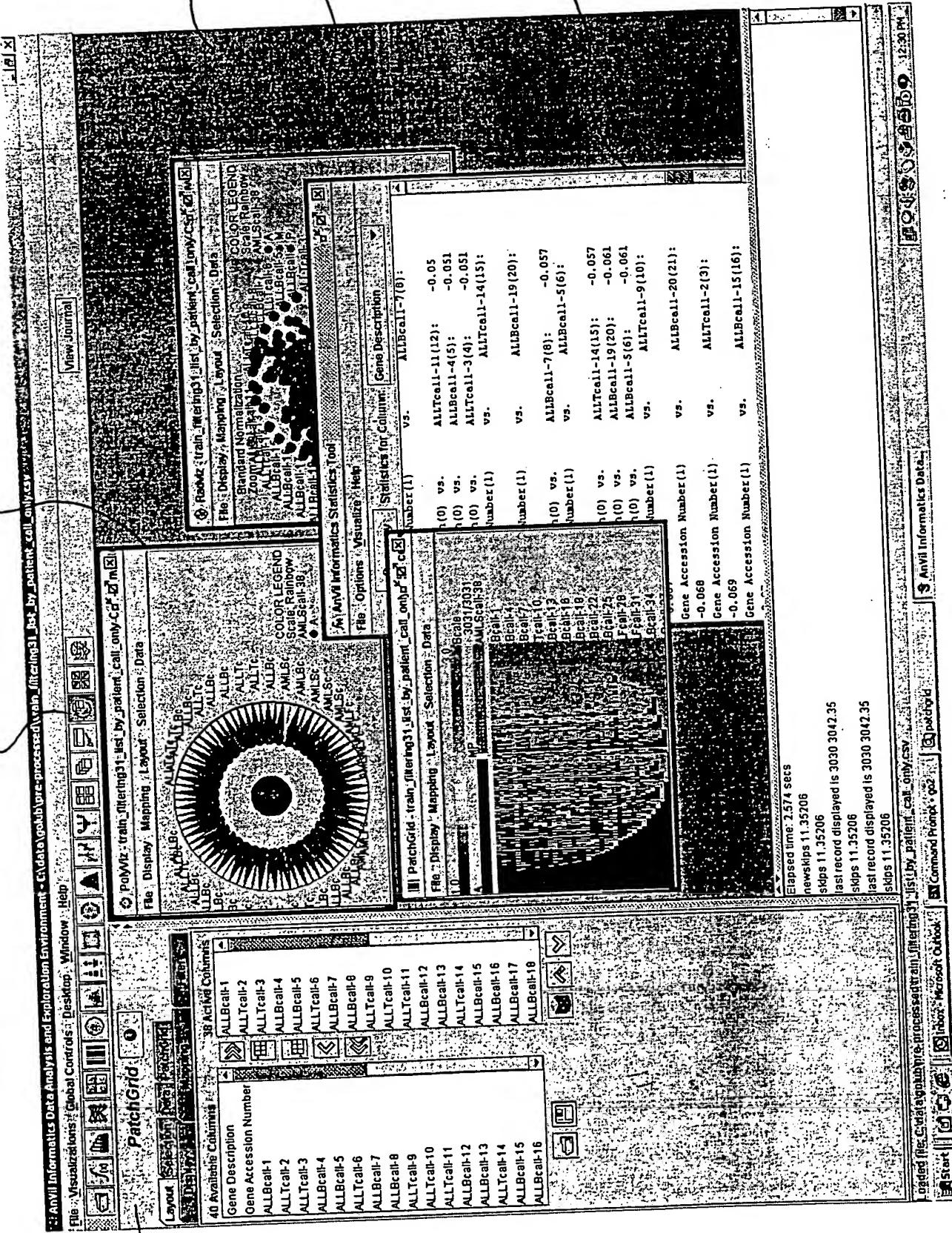
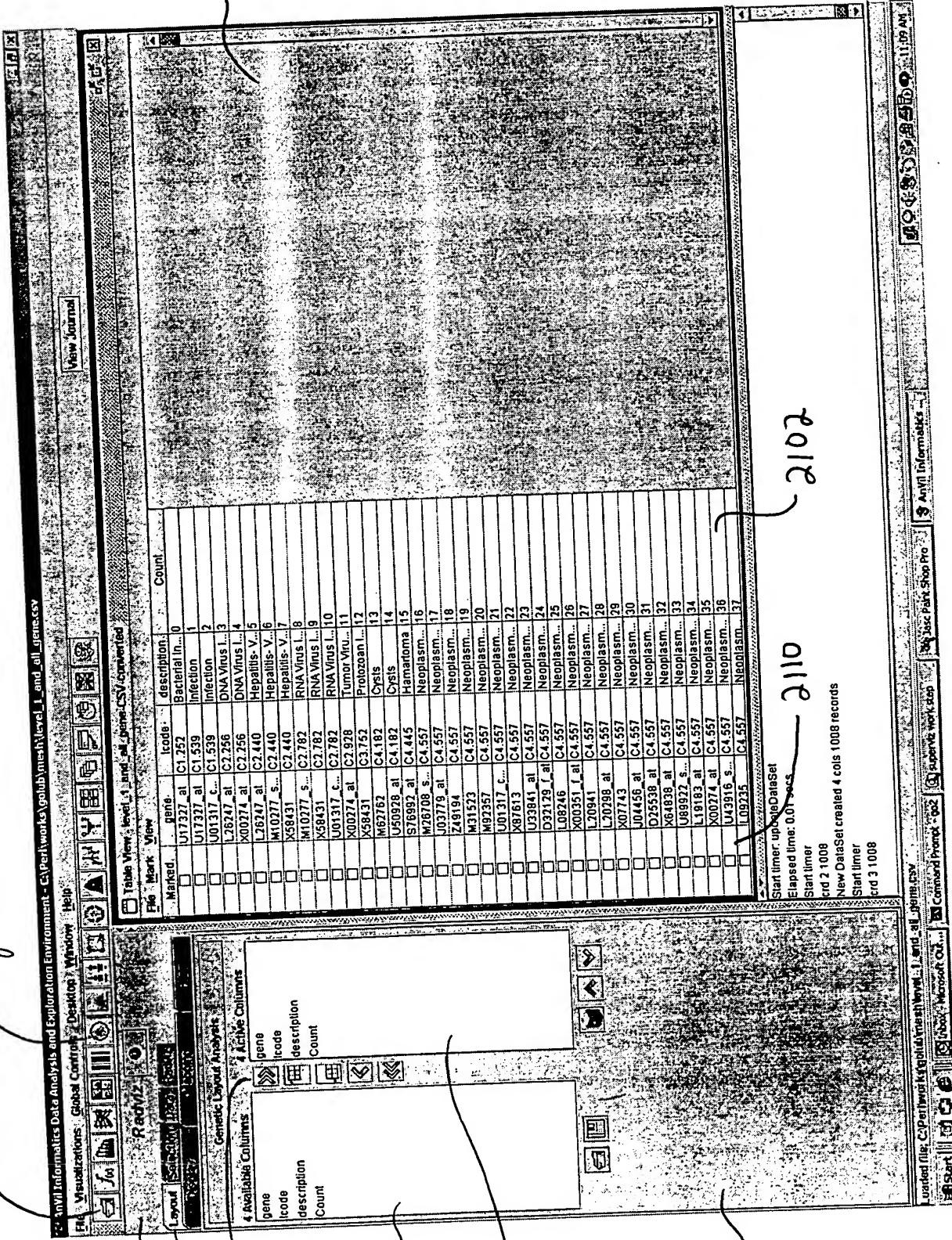


Figure 20

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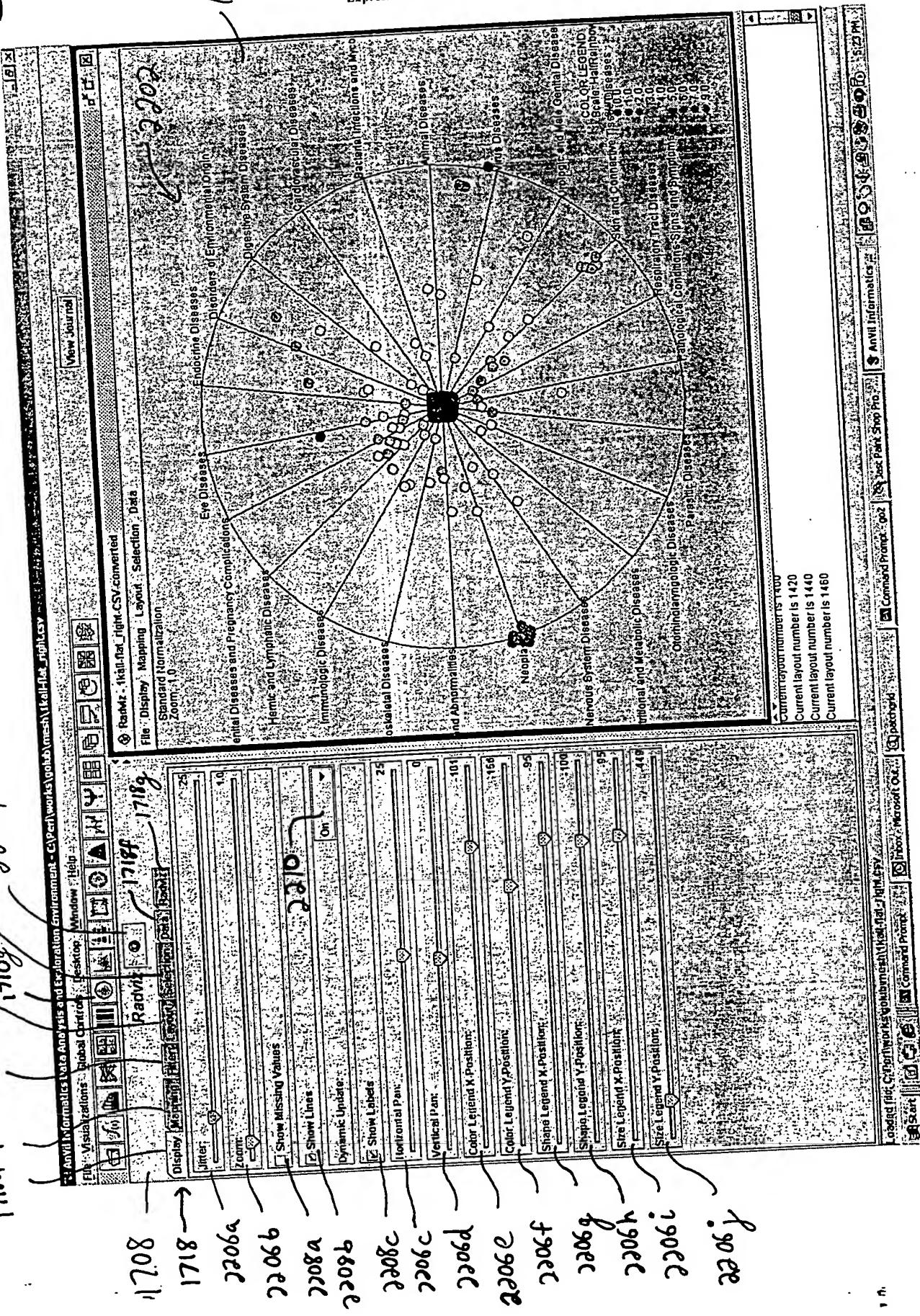
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Figure 21

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Inventor(s): Gee et al.
Serial No. Not yet assigned
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1981 etc

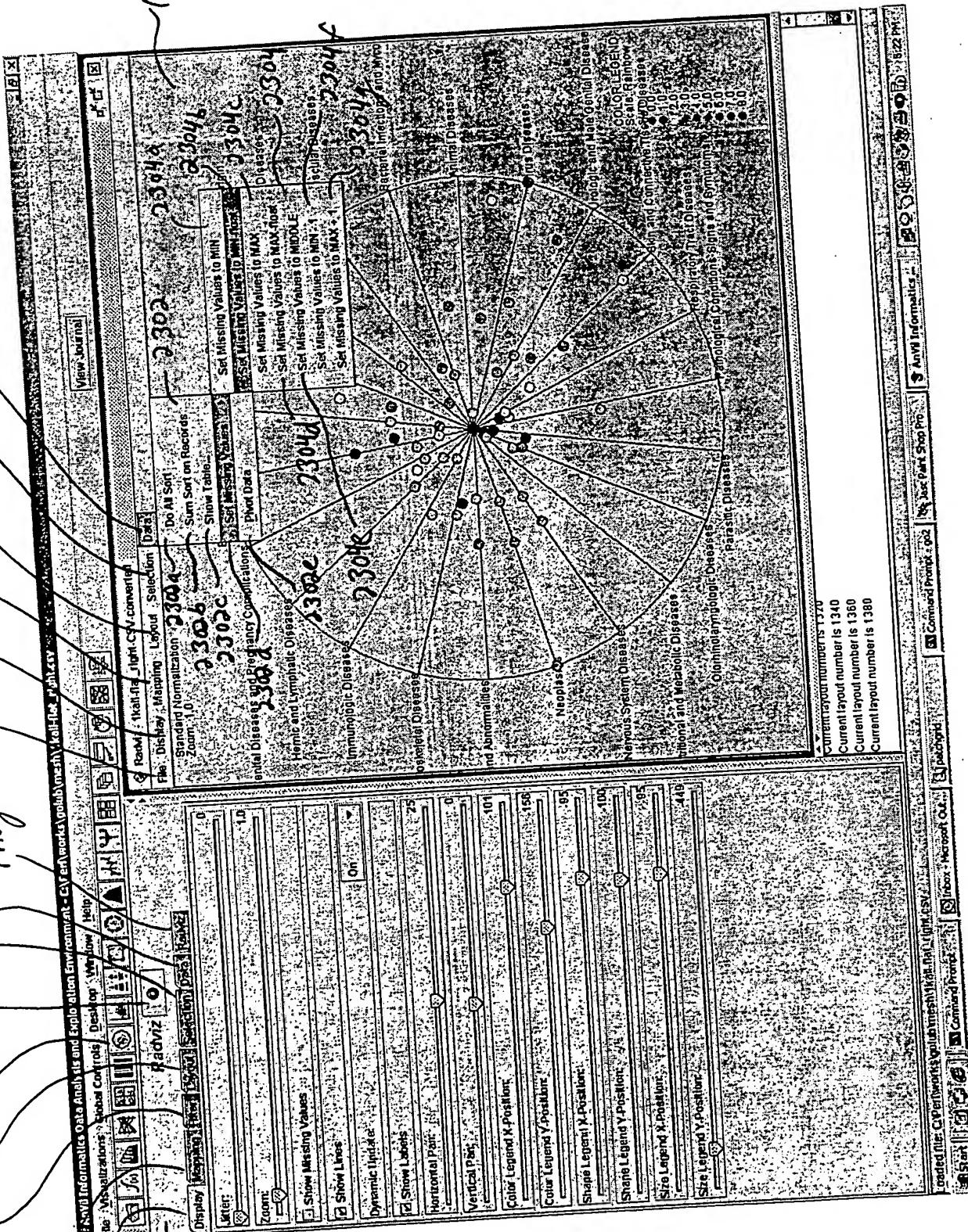


Figure 23

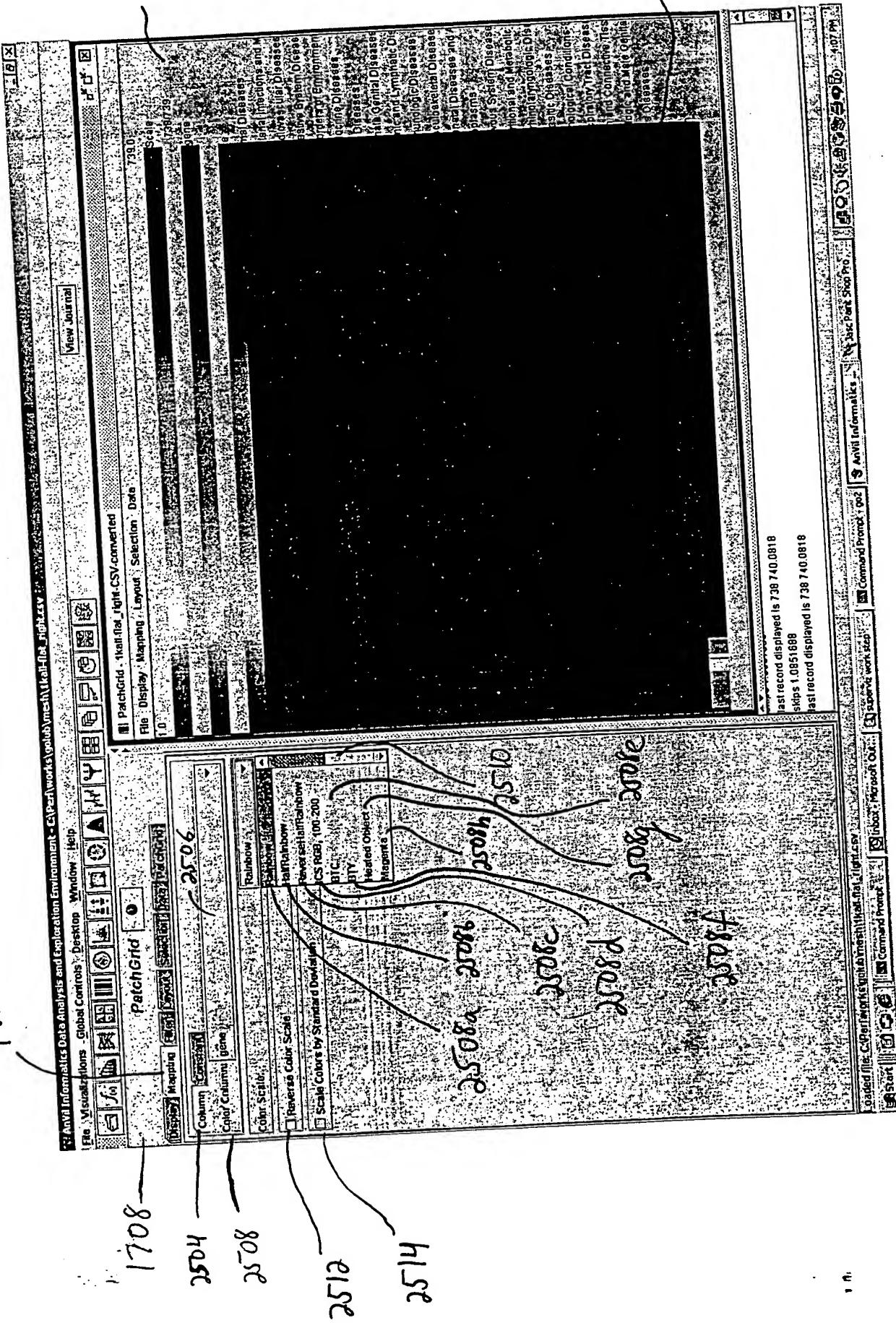
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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 55 of 79

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Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 56 of 79

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ANVIL Inflammatory Data Analysis and Exploration Environment - C:\Perl\work\goldblatt\11\ash-for-repository

File Edit View Database Global Control Desktop Windows Help

PatchGrid PatchGrid - Main and Light CSV-connected File Display Mapping Layout Selection Data

Column Column sum

Color Column

Color Scales

Reservoir

Score

All Diseases

Infectious Diseases

Non-infectious Diseases

Bacterial Infections and Inflammation

Cardiorespiratory Diseases

Digestive System Diseases

Endocrine Diseases

Eye Diseases

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739750

newspaper 1.065.688

ships 1.081688

Last record displayed is 739740.0818

3 Anvi Information

1 Command Prompt 02

1 Super User 02

1 Local Network 02

1 Command Prompt 02

1 Super User 02

1 Local Network 02

—
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Figure 26

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Figure 7

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- eolc

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Title: Method And System For Data Analysis

Inventor(s): Gee et al.

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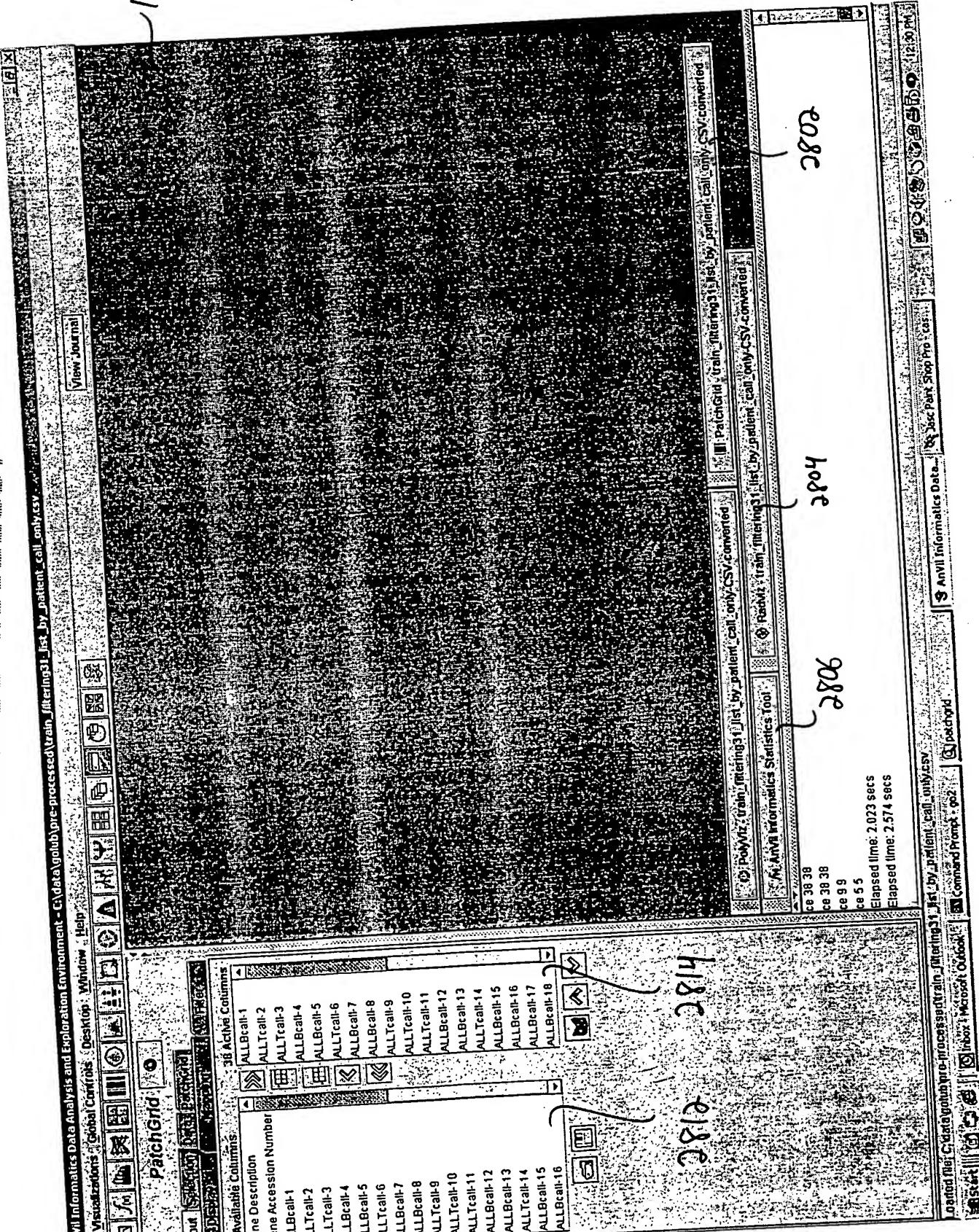
Docket No. ANV-001

Contact: John V. Bianco 617-248-7870

Express Mail Label No. EV012824282US

Sheet 58 of 79

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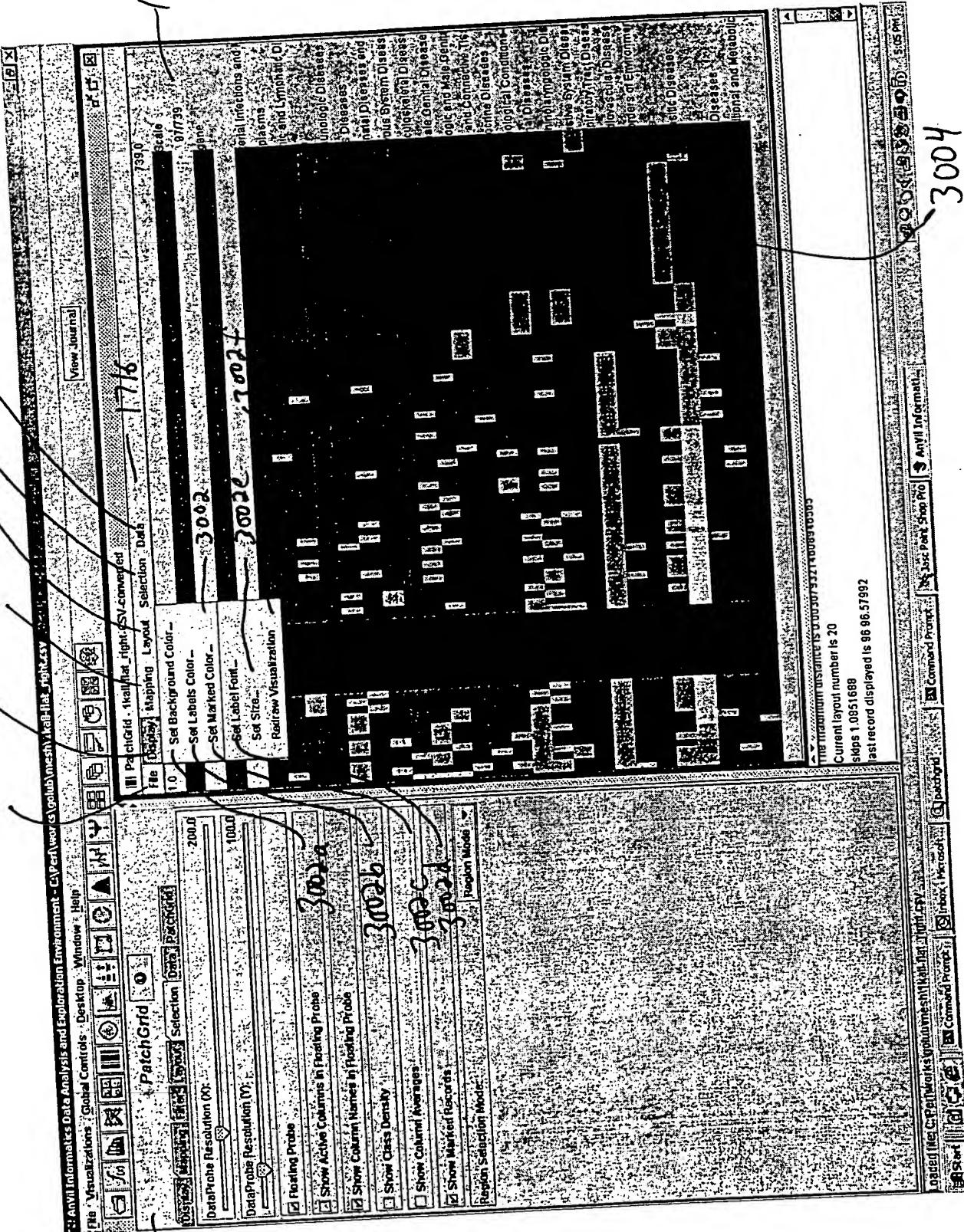
१०८२ अप्रैल १९५४ विजयनगर

Figure 28

2020

Figure 30

Title: Method And System For Data Analysis
 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 60 of 79



3100

Title: Method And System For Data Analysis
 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 61 of 79

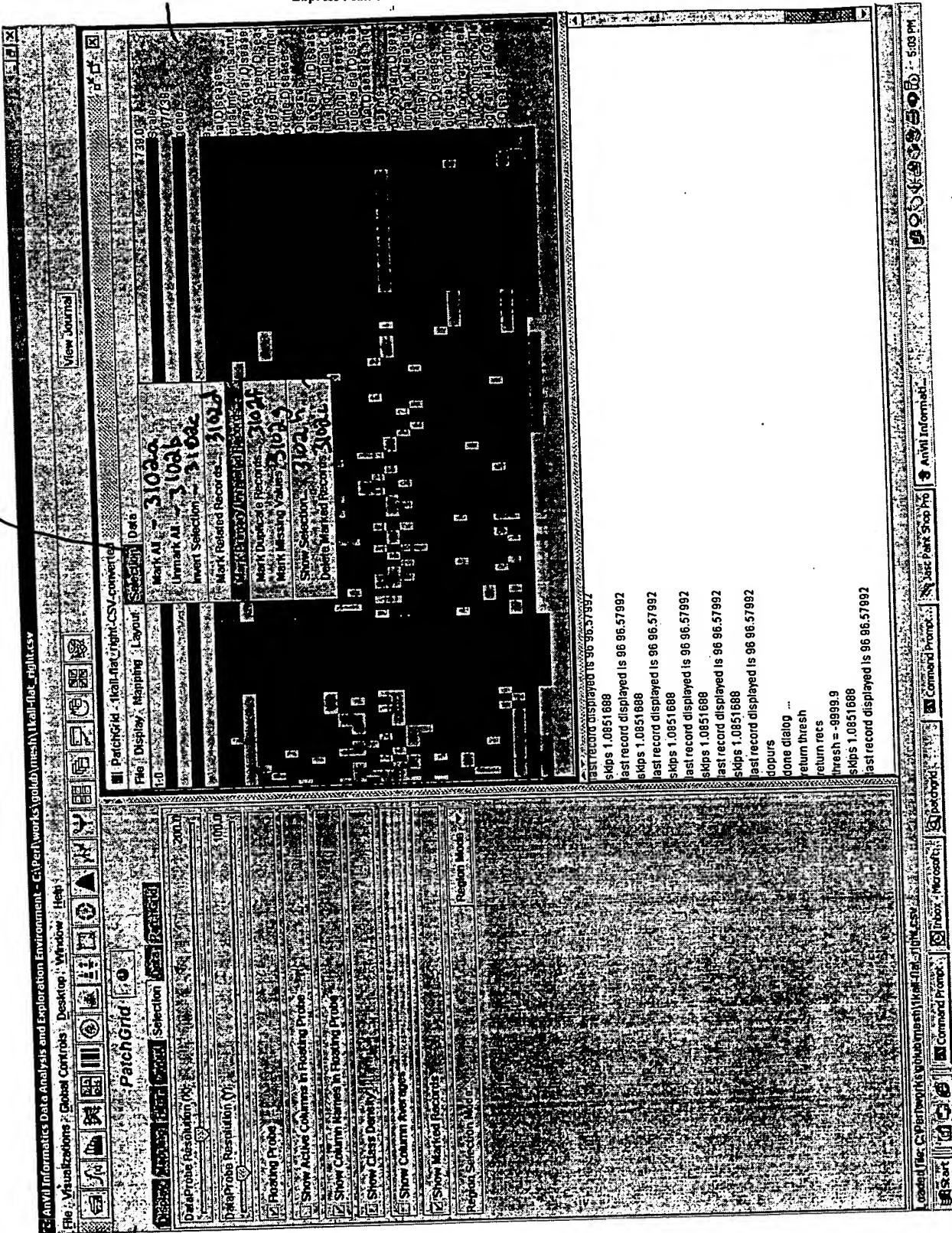


Figure 231

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 62 of 79

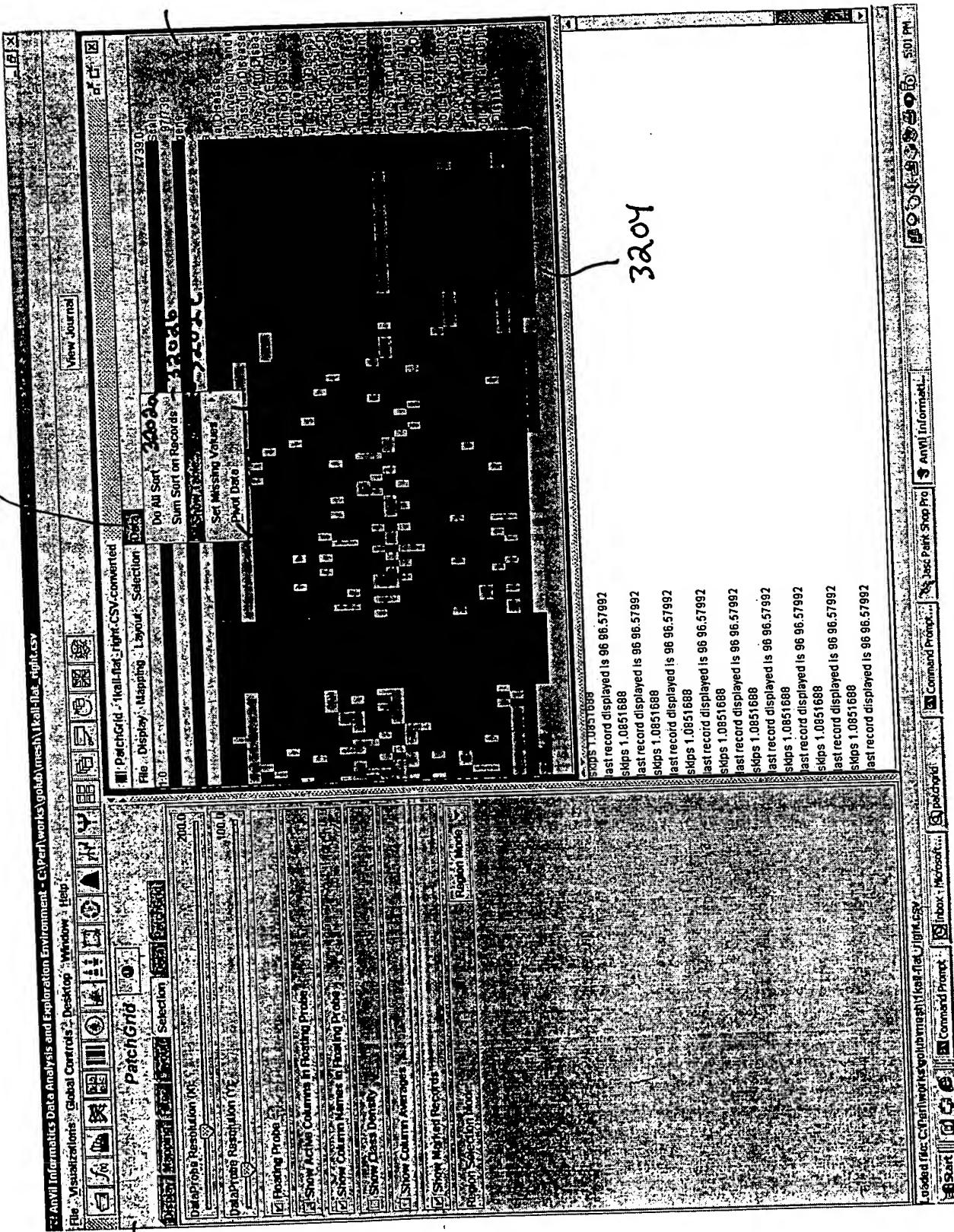


Figure 32

3300

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US **Sheet 63 of 79**

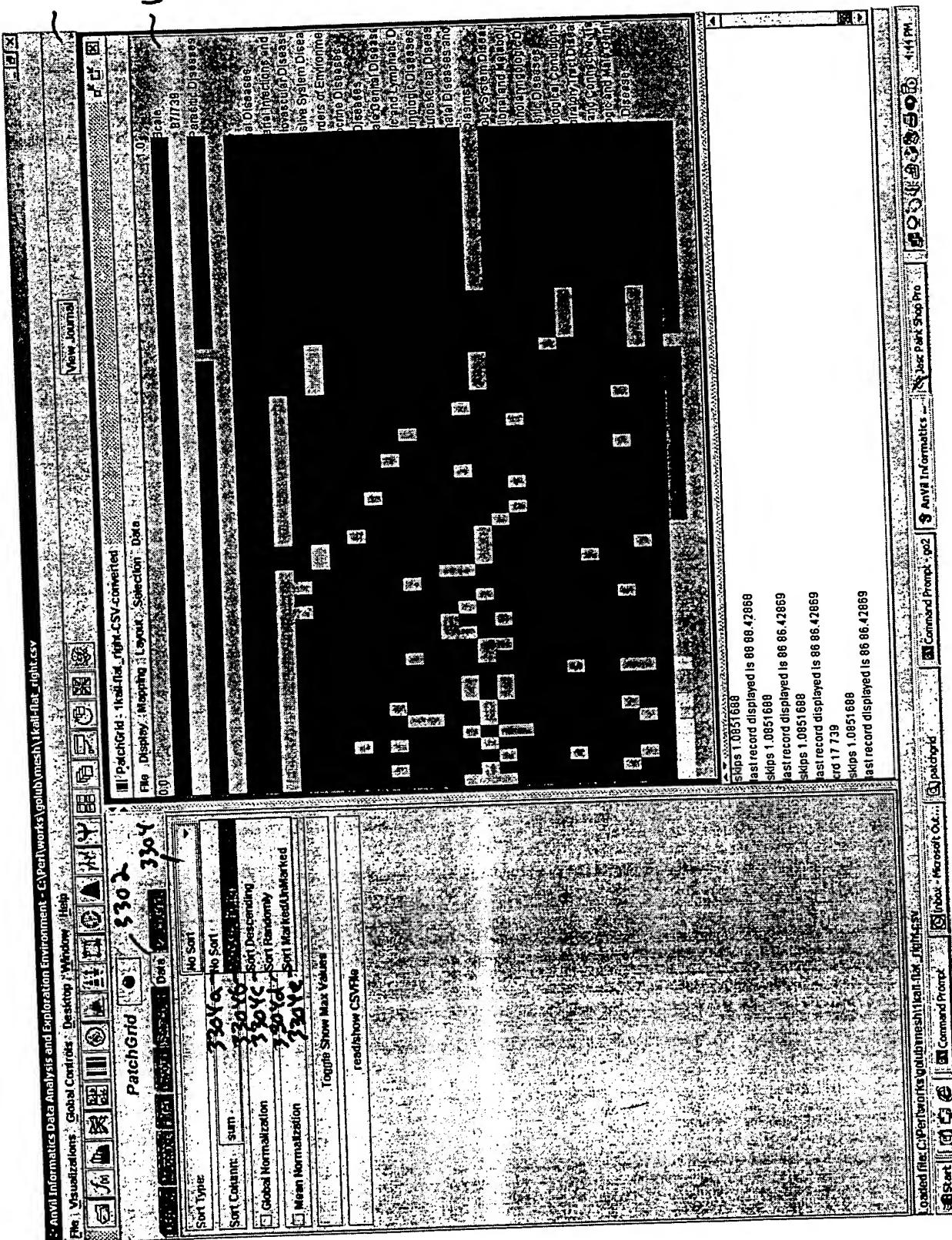
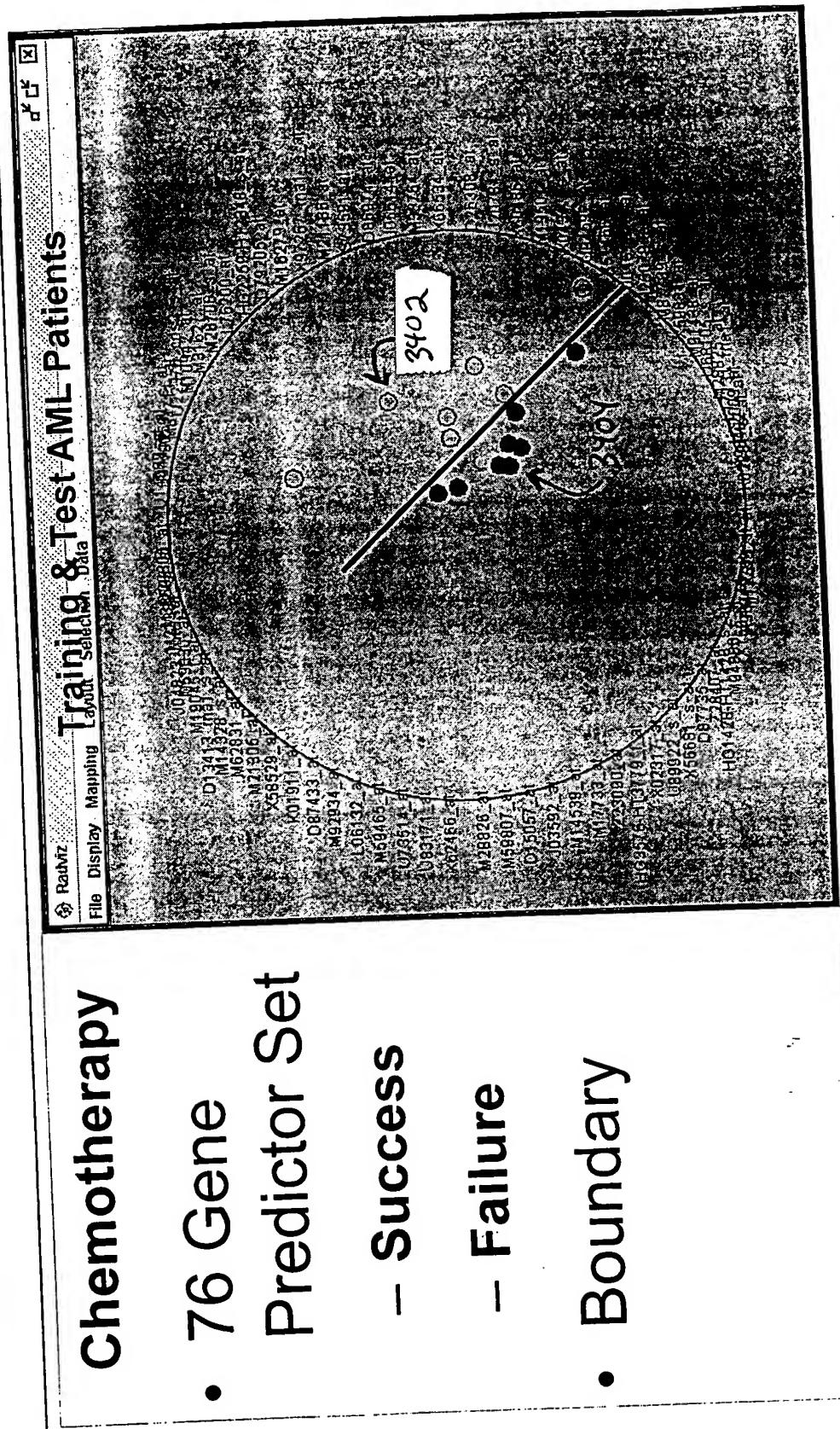


Figure 33

Treatment Outcome Prediction

- 76 Gene Predictor Set
 - Success
 - Failure
- Boundary



2259884

Figure 34

Reduced Genes

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 65 of 79

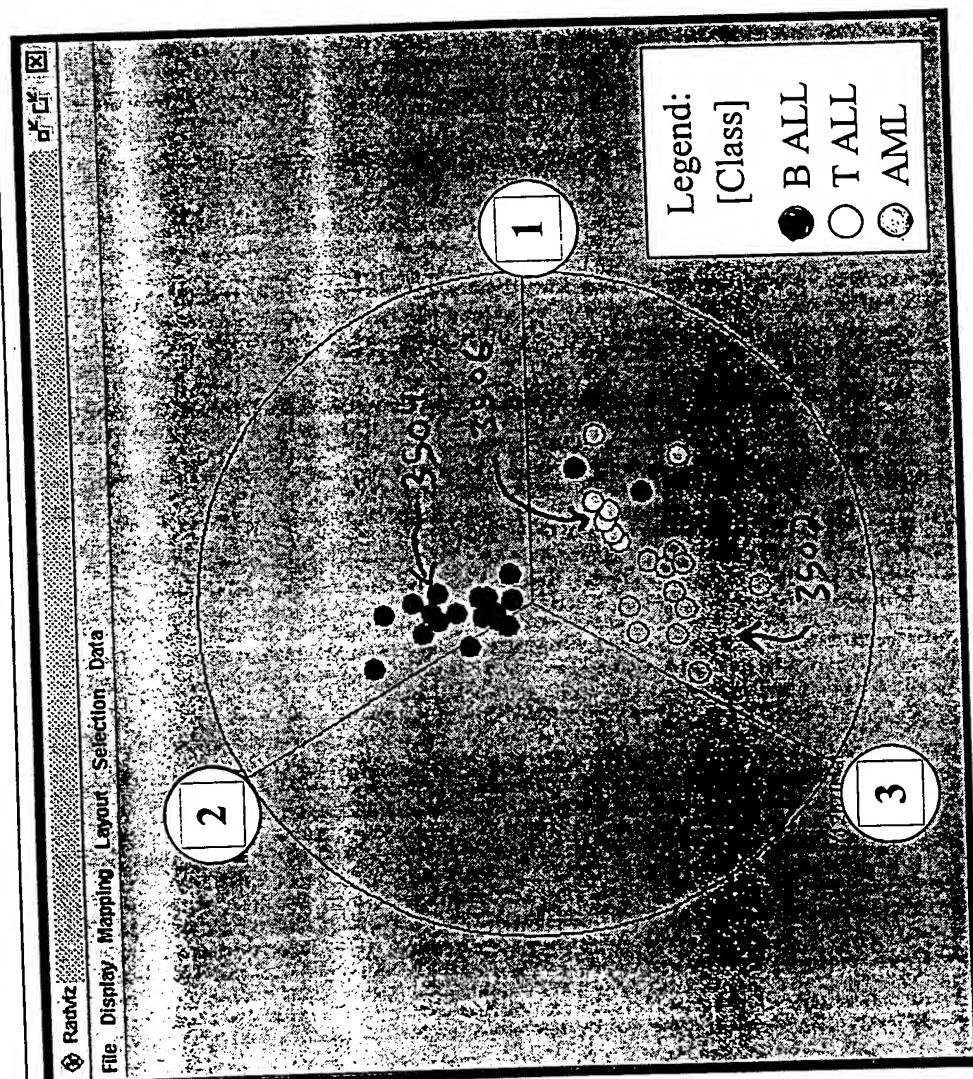


Figure 35

2259884

Chemical Structure

Benzodiazepines

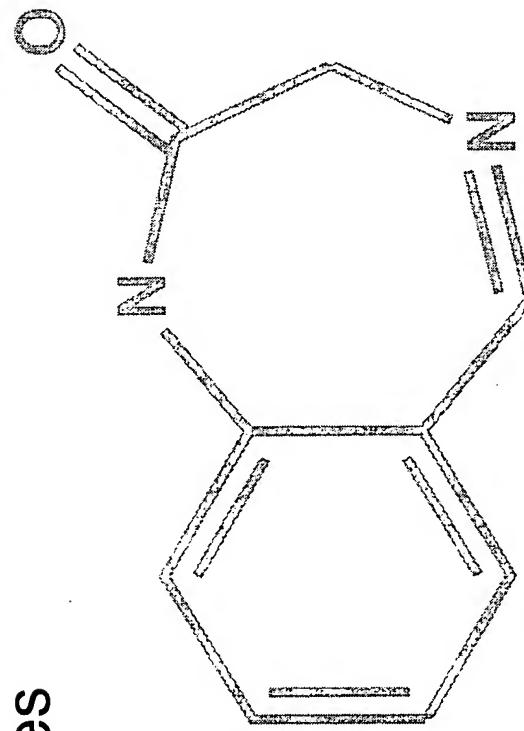


Figure 36

2273661

Radial Visualization

Showing R₃ Attributes

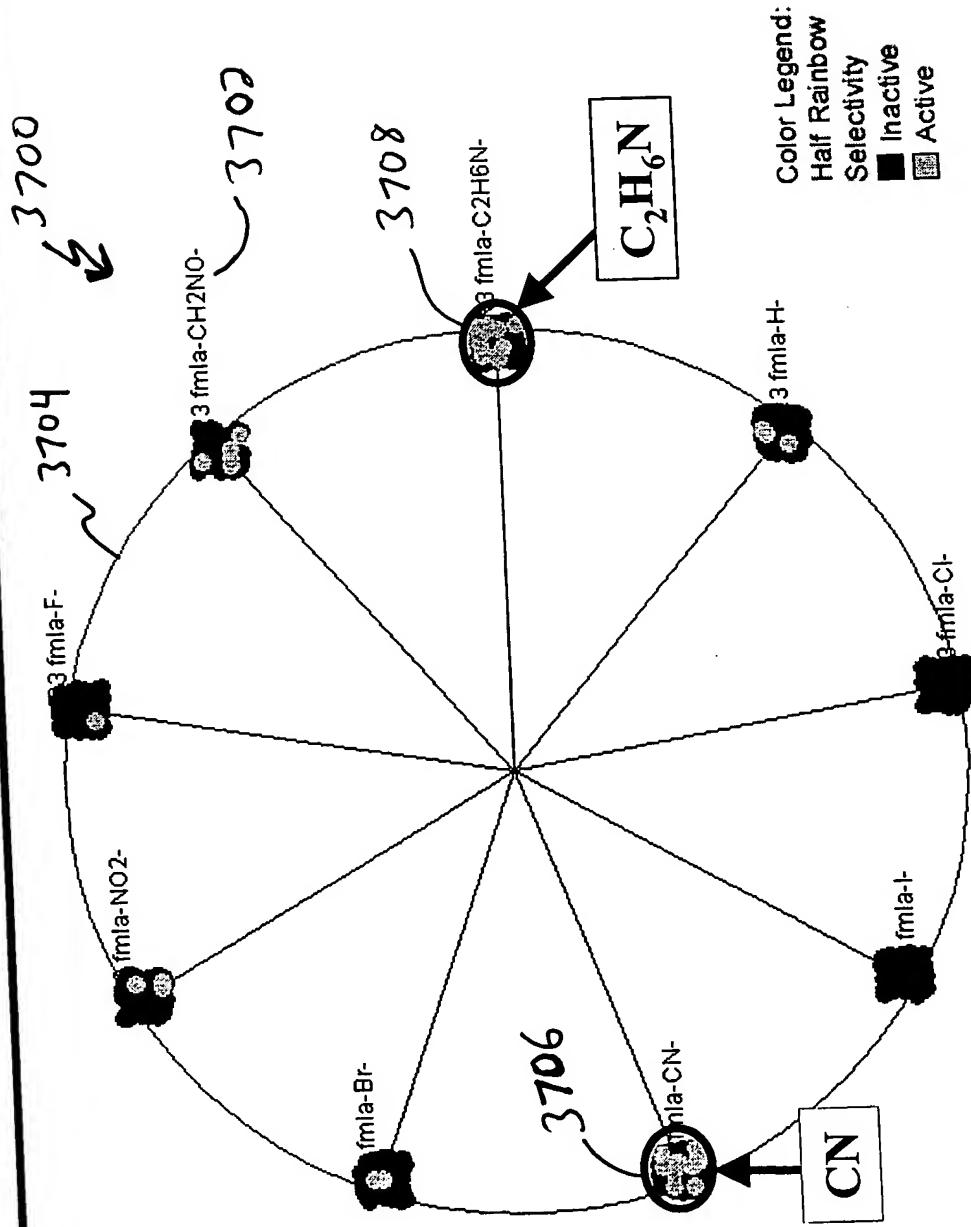


Figure 37

2273661

Radial Visualization

Showing R_3 & R_4 Attributes

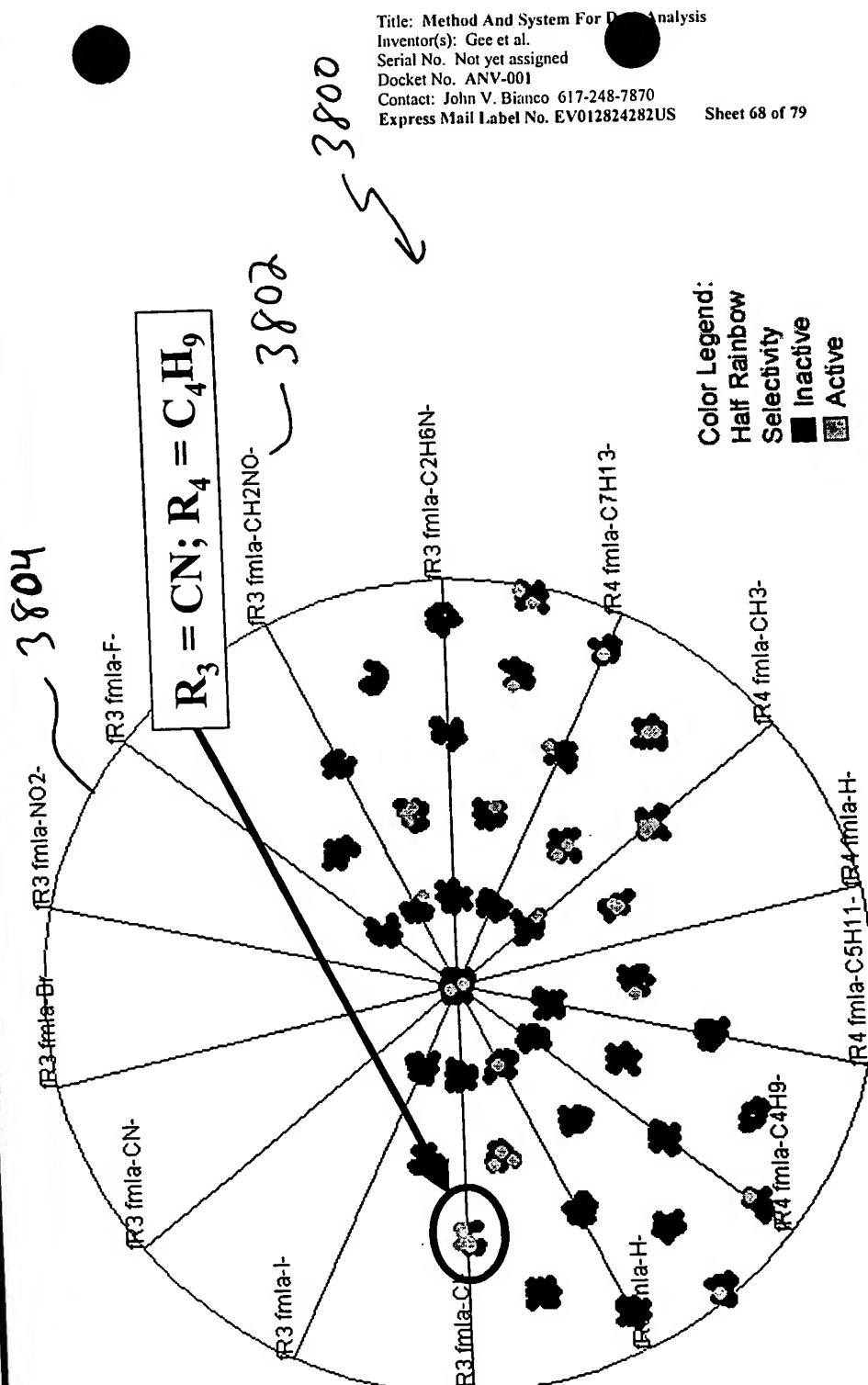
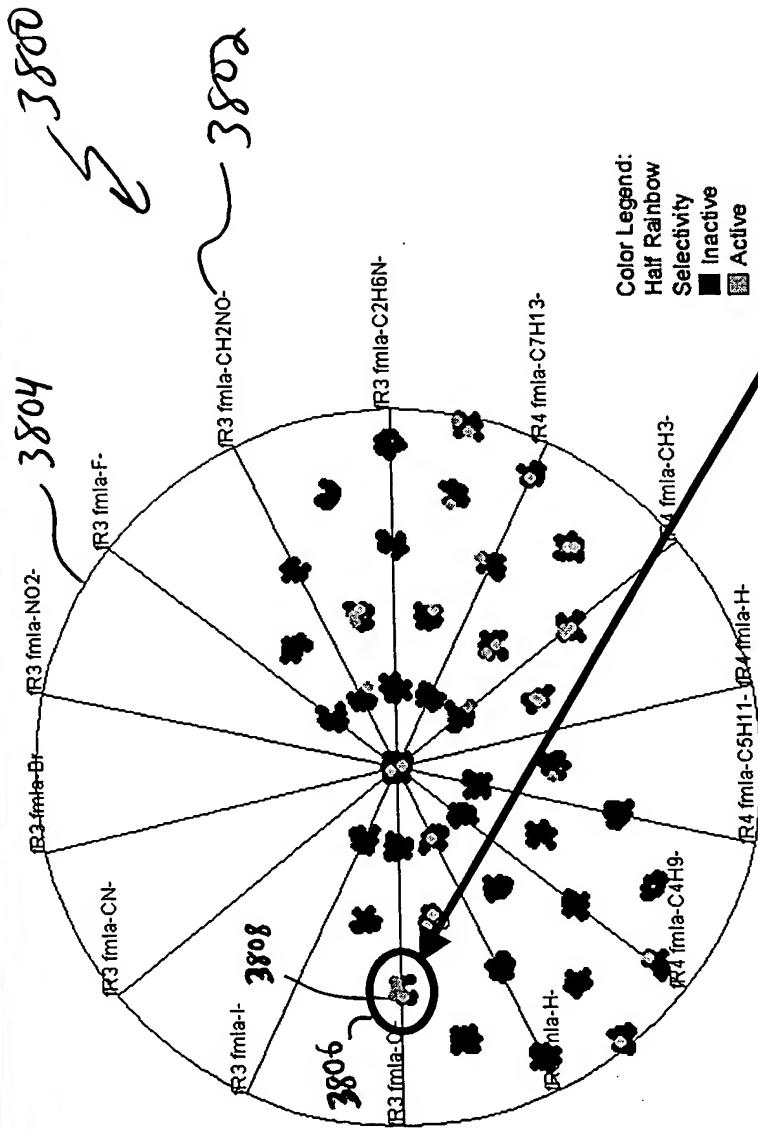


Figure 38

Radial Visualization Showing R_3 & R_4 Attributes

Showing R_3 & R_4 Attributes



Title: Method And System For Data Analysis
 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 69 of 79

Record	LC/MS	Assay 1	Assay 2	Kd 1	Kd 2	R1	R2	R3	R4	S5	Select
937	pass	0.087	355.5	591.7	9.51	C5H5-	C6H11-	CN-	C4H9-	3.00	good
937	pass	0.01	456.4	0.87	0.11	CH3-	C6H11-	CN-	C4H9-	4.43	good
937	pass	0.007	358.8	44.7	3.89	H-	C6H5-	CN-	C4H9-	5.58	good
937	pass	0.002	495.8	78.35	57.52	C9H8N-	C6H11-	CN-	C4H9-	6.44	good

Figure 39 3810

Radial Visualization Showing R_3 , R_4 & S_5 Attributes

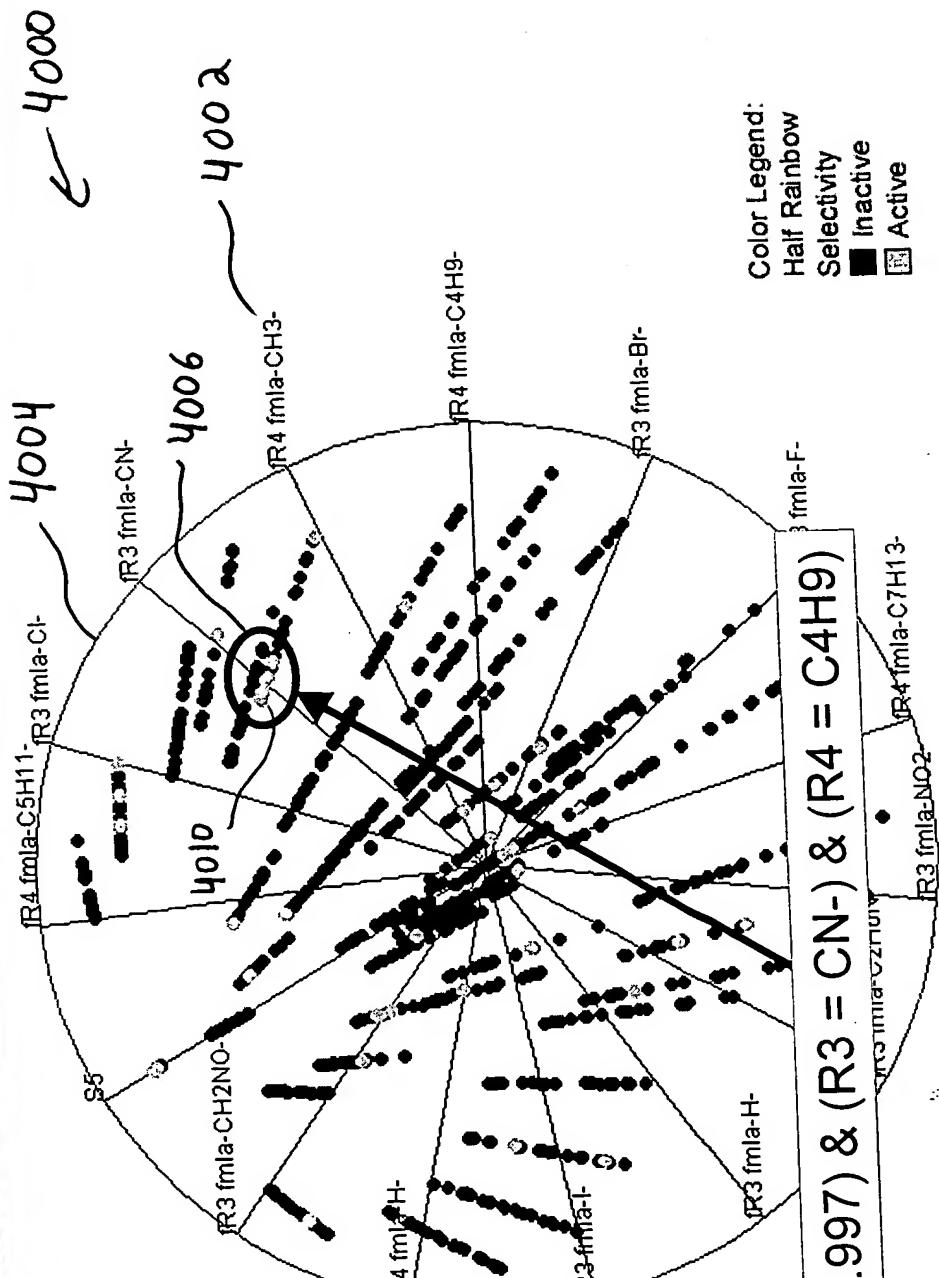
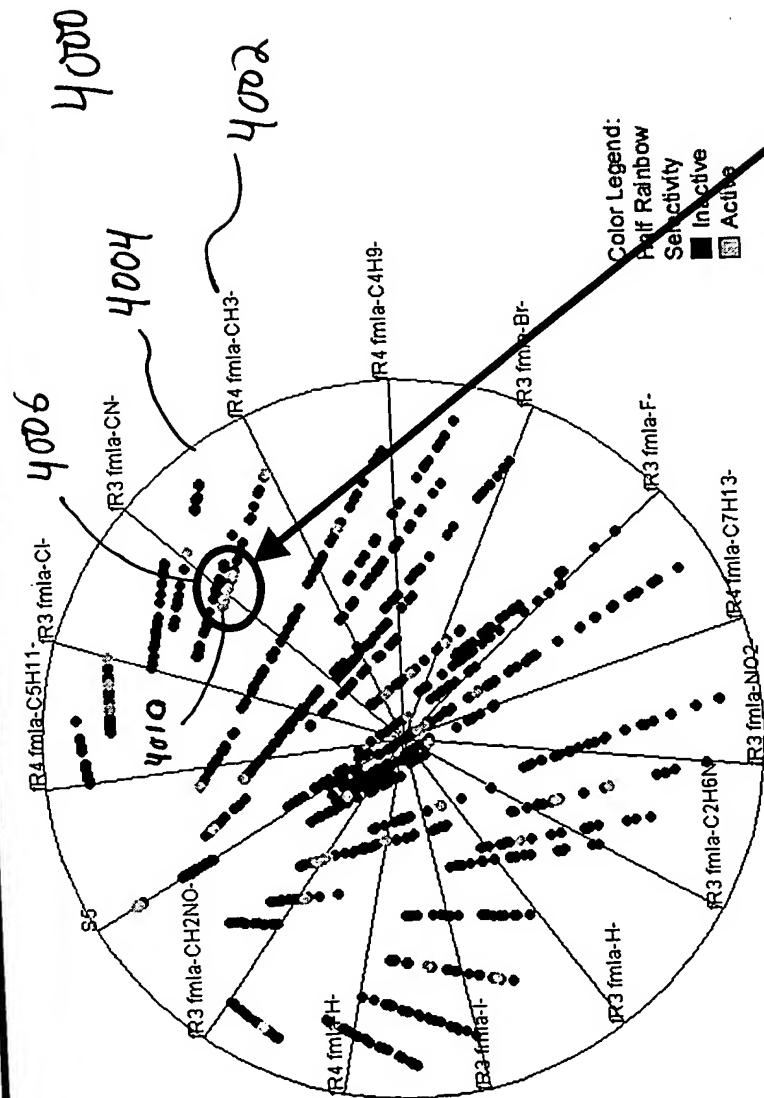


Figure 40

Radial Visualization

Showing R₃, R₄ & S₅ Attributes



Title: Method And System For Data Analysis
 Inventor(s): Gee et al.
 Serial No. Not yet assigned
 Docket No. ANV-001
 Contact: John V. Bianco 617-248-7870
 Express Mail Label No. EV012824282US Sheet 71 of 79

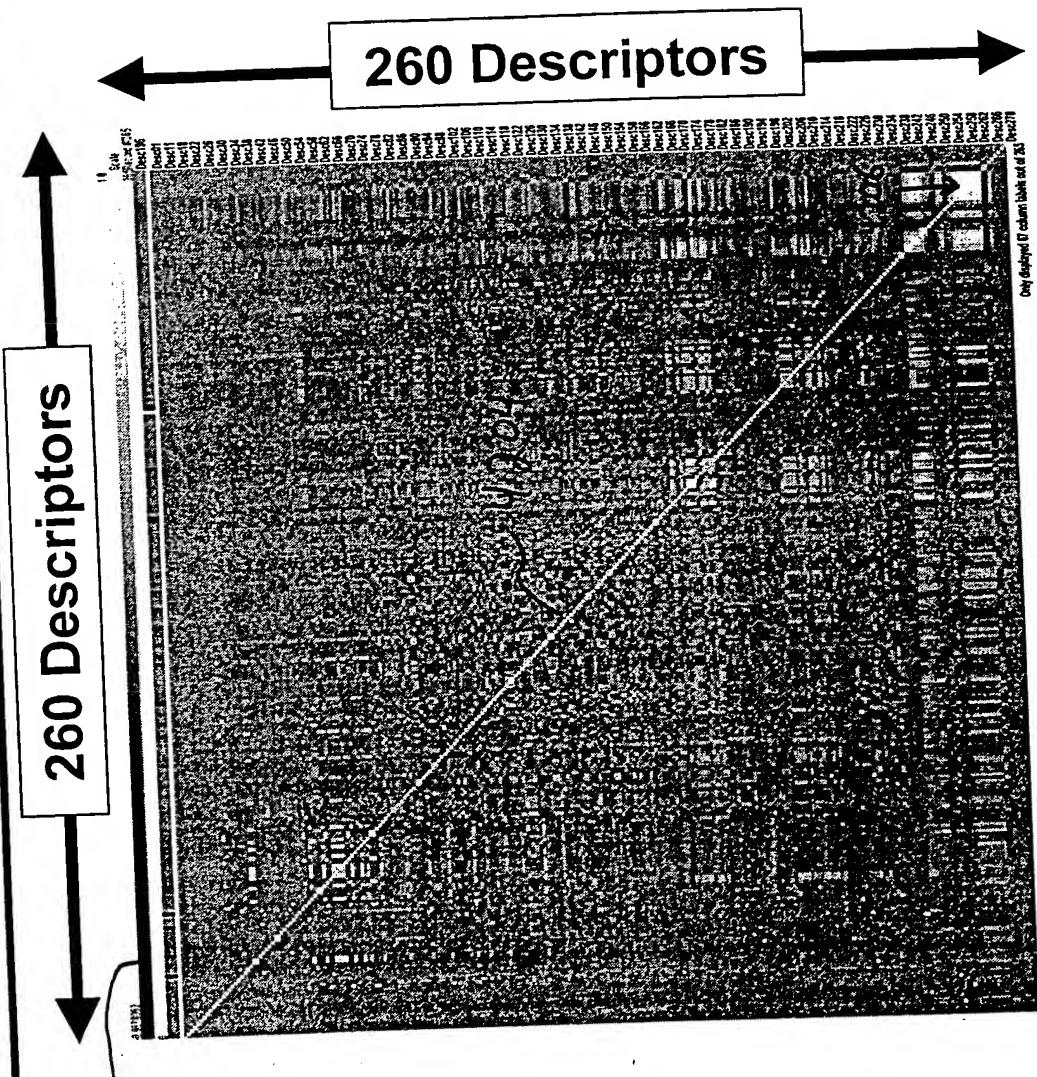
Record	LC/MS	Assay 1	Assay 2	Kd 1	Kd 2	R1	R2	R3	R4	S5	Select.
937	pass	0.087	355.5	591.7	9.51	C5H5-	C6H11-	C4H9-	3.00	good	
951	pass	0.01	456.4	0.87	0.11	CH3-	C6H11-	C4H9-	4.43	good	
953	pass	0.007	358.8	44.7	3.89	H-	C6H5-	C4H9-	5.58	good	
956	pass	0.002	495.8	78.35	57.52	C9H8N-	C6H11-	C4H9-	6.44	good	
958	pass	0.001	305.8	0.14	7.6	I-	C6H11-	C4H9-	7.08	good	

4008

Figure 41

2273661

Pearson Cross Correlations



Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 72 of 79

Figure 42

2273661

ISIS Keys

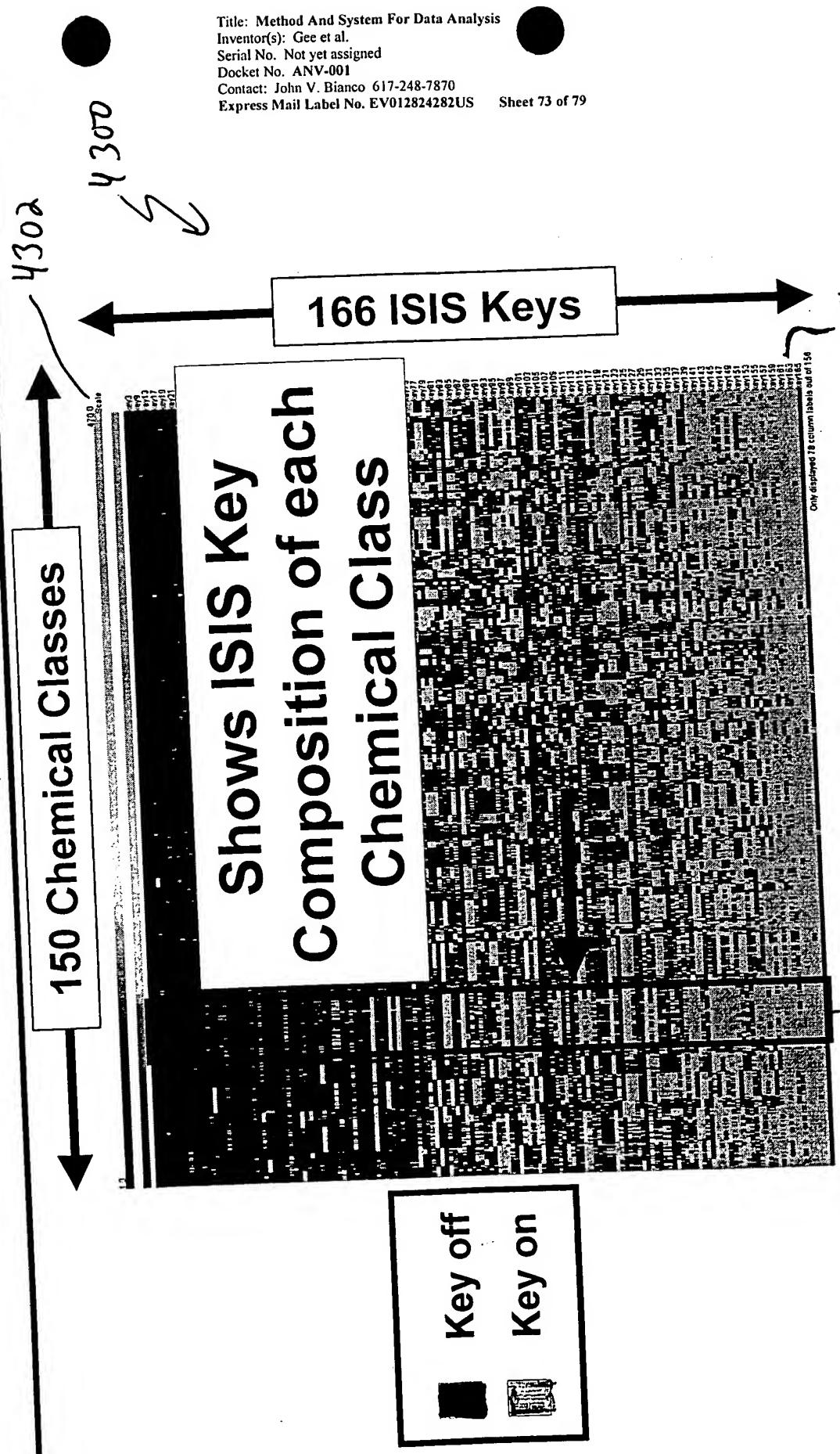
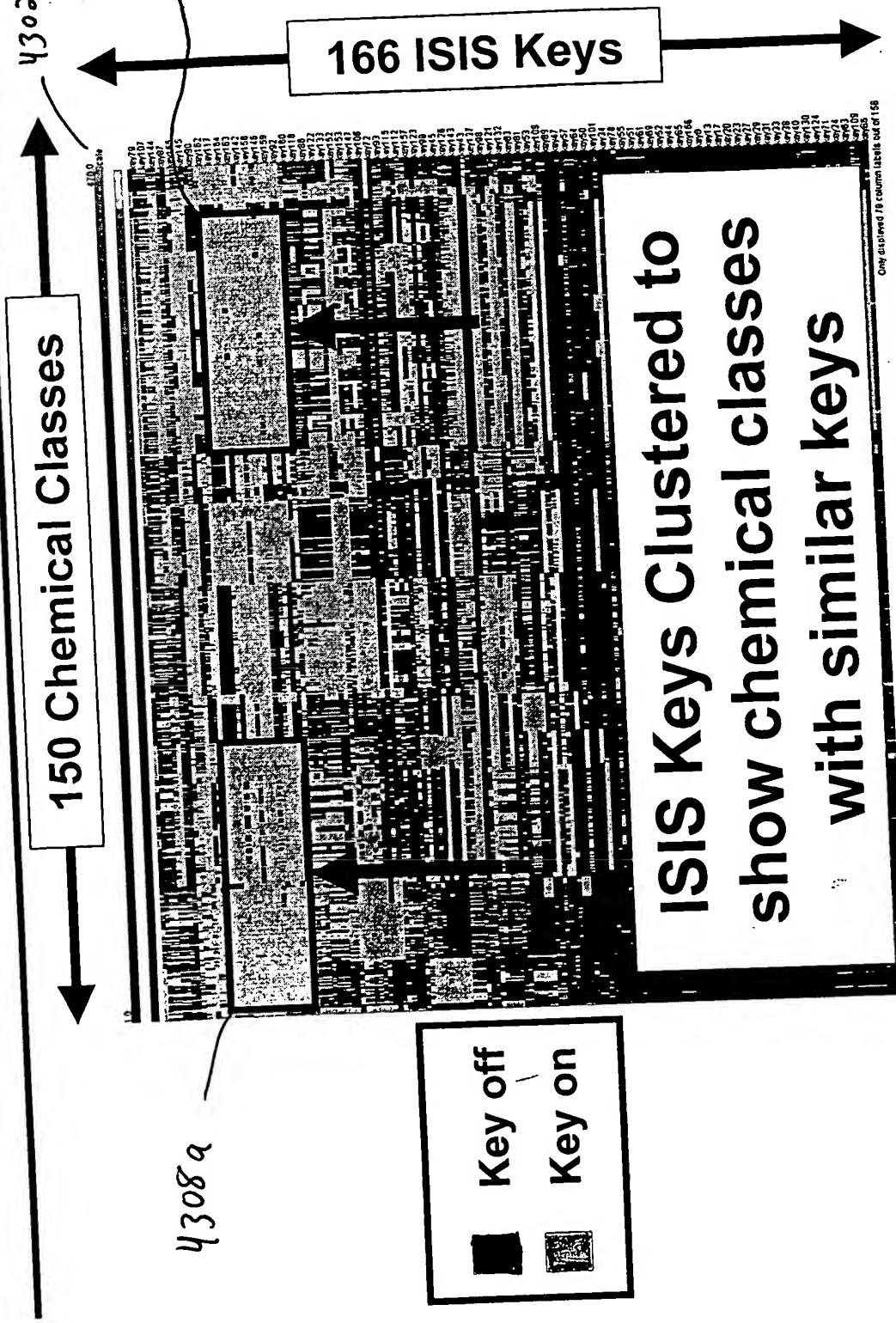


Figure 43

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ISIS Keys



ISIS Keys Clustered to
show chemical classes
with similar keys

Figure 44

Association Rules - Visually

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 75 of 79

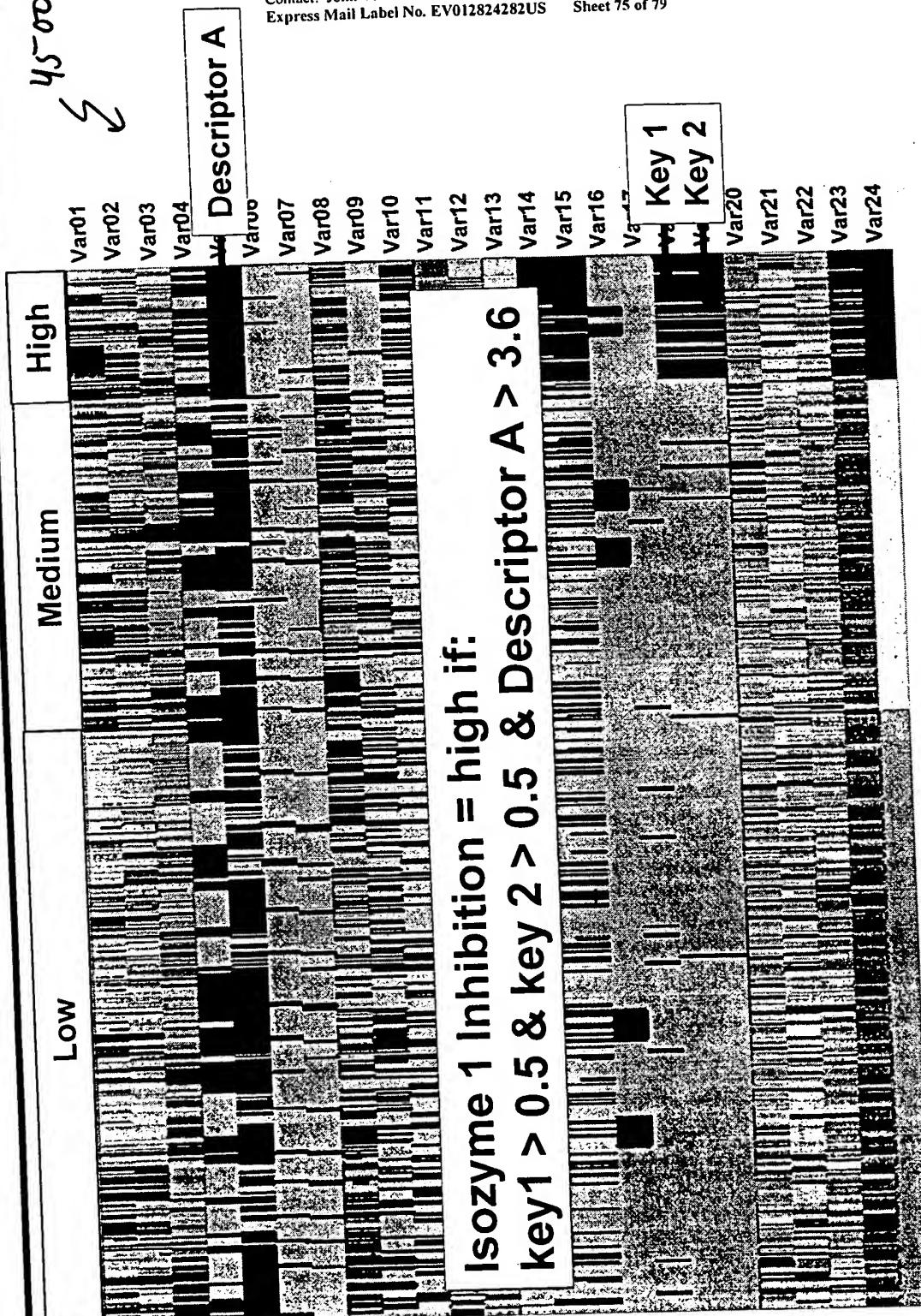


Figure 45

2273661

Exploratory Overview

Title: Method And System For Data Analysis
Inventor(s): Gee et al.
Serial: Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US S

Sheet 76 of 79

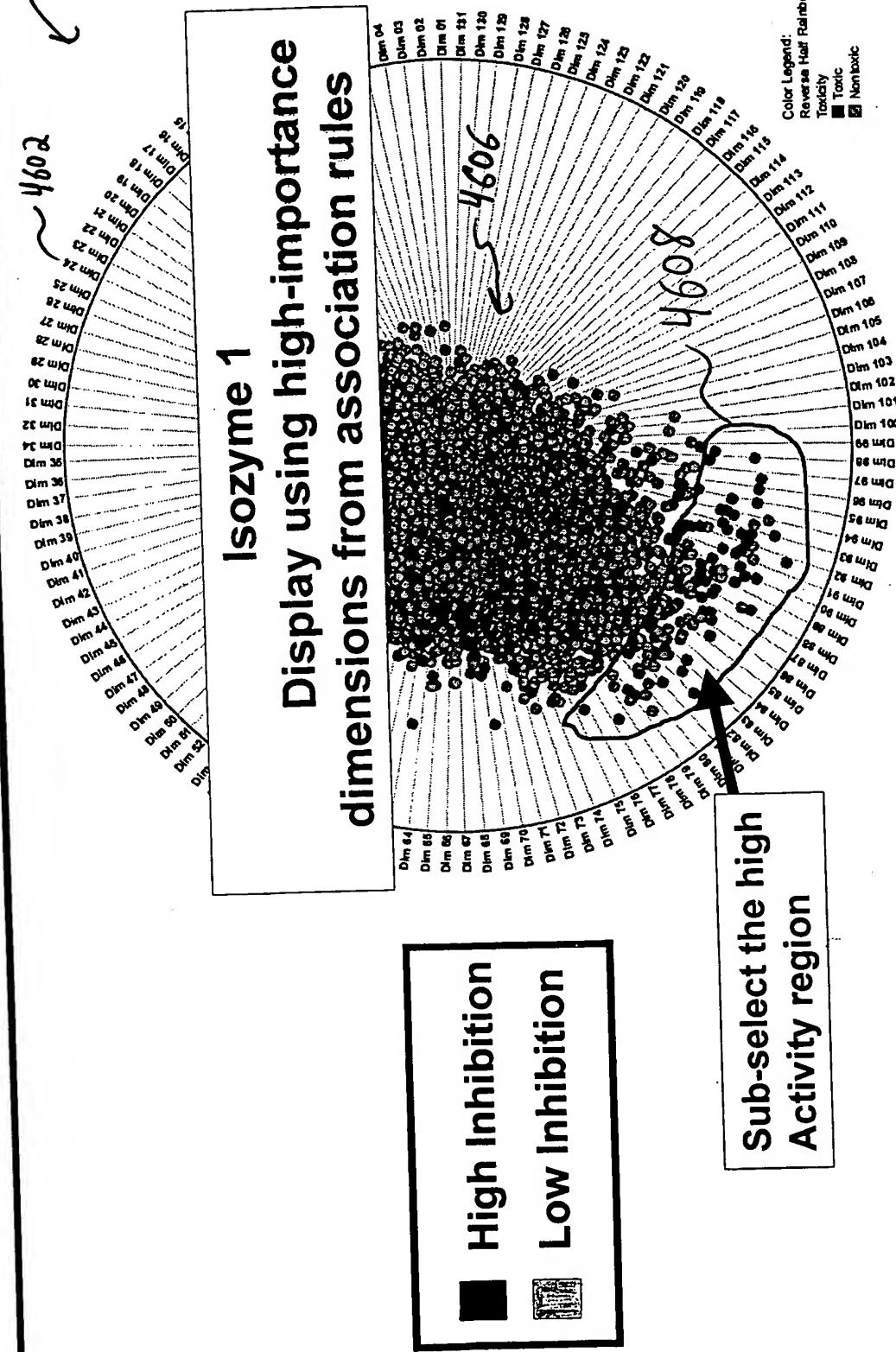


Figure 46
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Toxic Distinction

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Inventor(s): Gee et al.
Serial No. Not yet assigned
Docket No. ANV-001
Contact: John V. Bianco 617-248-7870
Express Mail Label No. EV012824282US Sheet 77 of 79

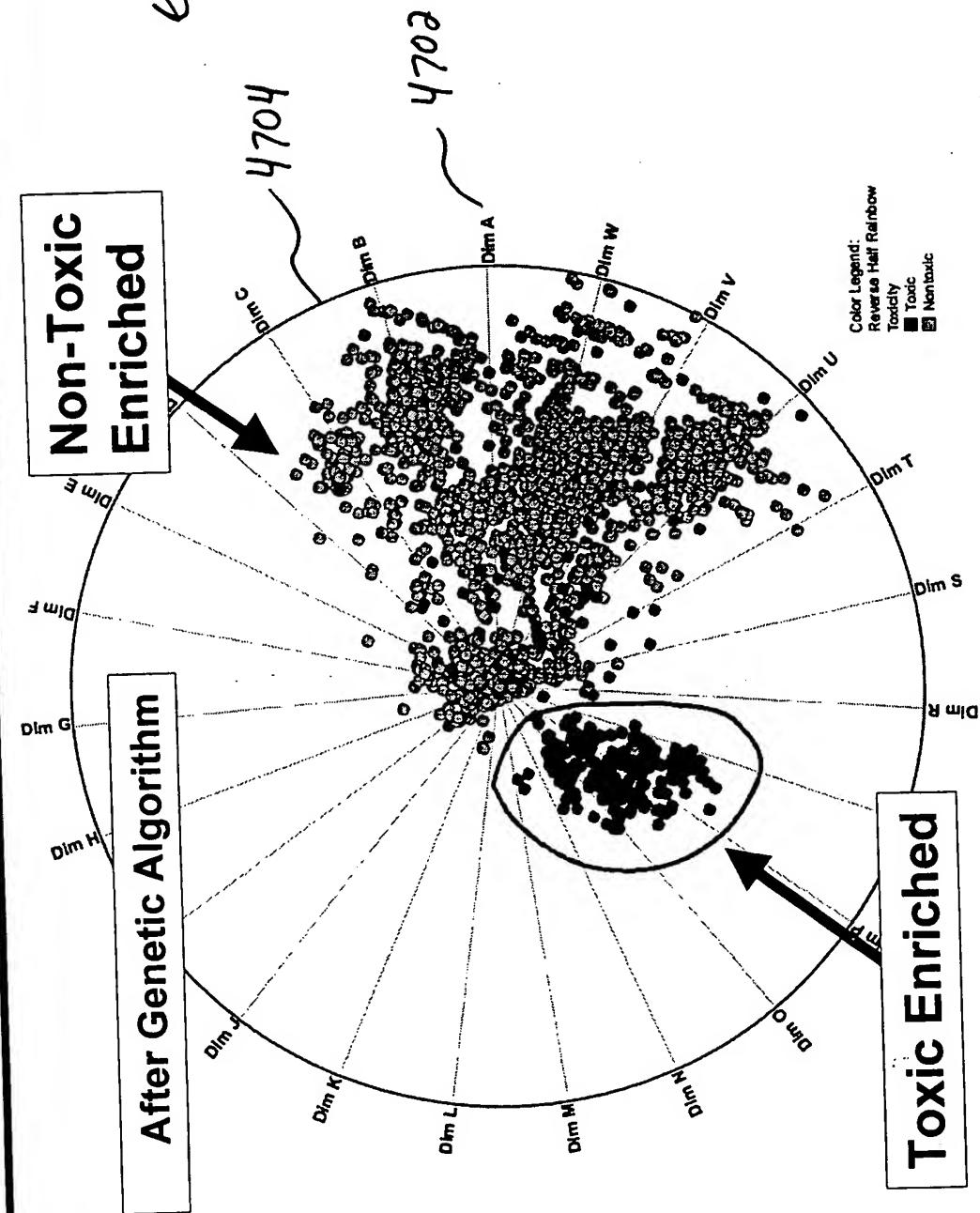


Figure 47

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Toxic Distinction

After AP Algorithm

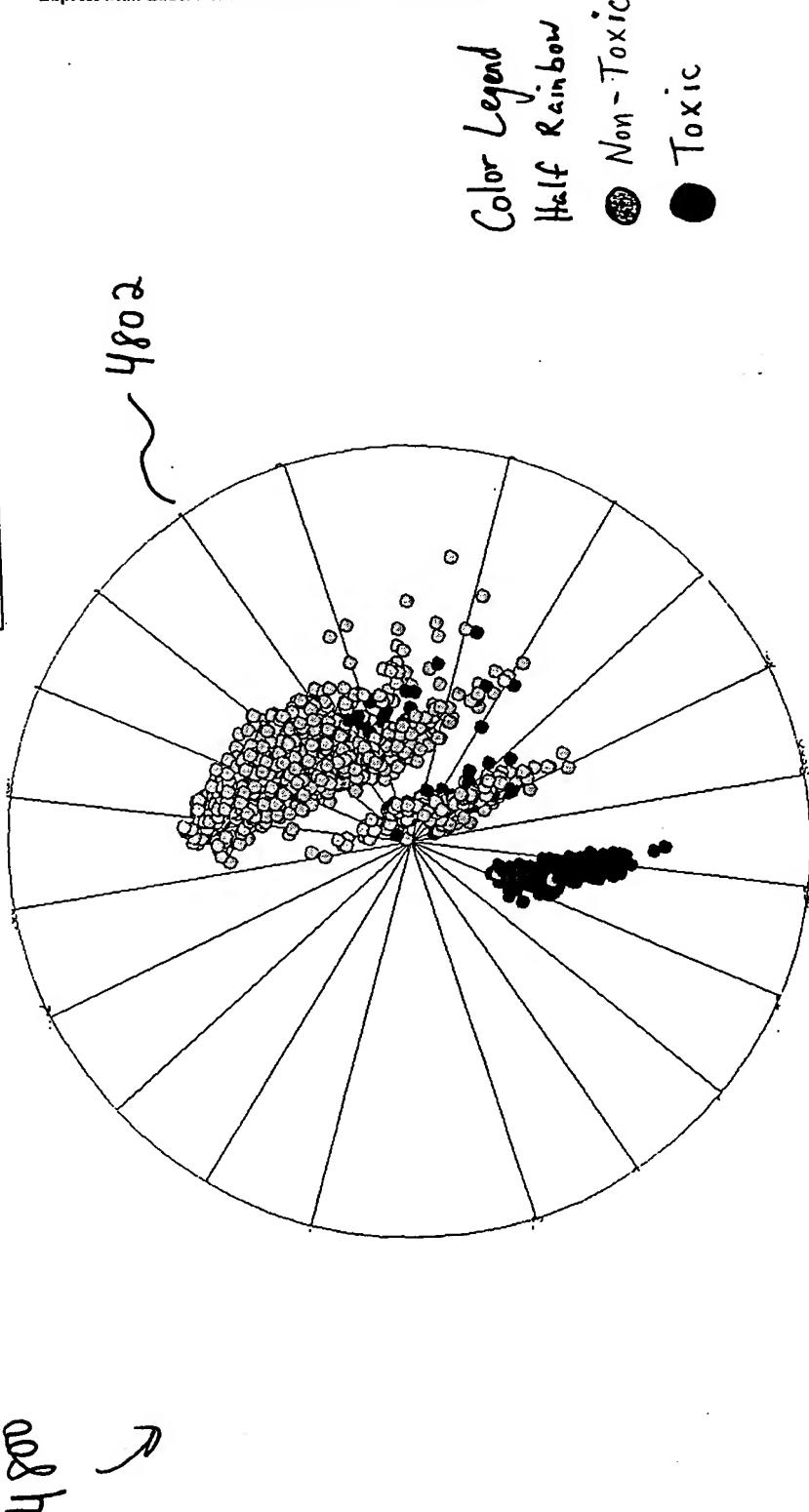


Figure 48

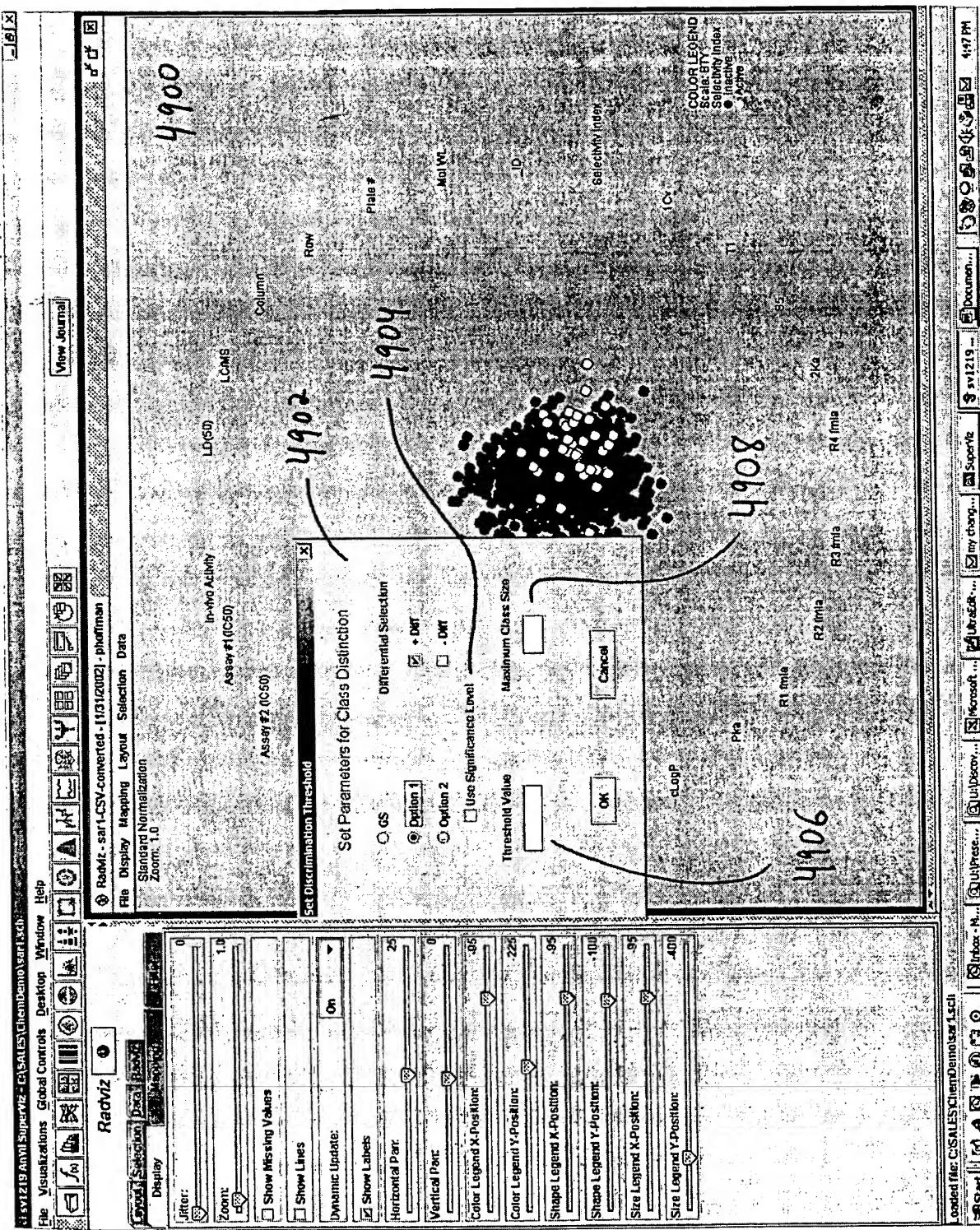


Figure 49